

UNITED STATES DEPARTMENT OF AGRICULTURE

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DAILY RIVER STAGES

AT RIVER GAGE STATIONS ON THE
PRINCIPAL RIVERS OF THE
UNITED STATES

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COMPILED BY MONTROSE W. HAYES
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INTRODUCTION

This volume, containing the daily river stages for 1930, is the twenty-eighth of a series of **Daily River Stages on the Principal Rivers of the United States**, the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.

II. Stages of the Mississippi River and of its Principal Tributaries, Except the Ohio River, 1860 to 1889.

III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.

DAILY STAGES AT RIVER GAGE STATIONS ON THE PRINCIPAL RIVERS OF THE UNITED STATES

Volume IV. 1890 to 1892.	Volume X. 1909 and 1910.	Volume XVI. 1918.	Volume XXII. 1924.
V. 1893 to 1895.	XI. 1911 and 1912.	XVII. 1919.	XXIII. 1925.
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IX. 1907 and 1908.	XV. 1917.	XXI. 1923.	XXVII. 1929.

Volumes XV to XXVII can be bought from the Superintendent of Documents, Washington, D. C.; Volumes I to XIV are out of print and can not be supplied.

The river stages are the vertical distances, in feet and tenths, of the water surface above or below the zero of the gage. The zero has, as a rule, been set at or near the lowest known water.

Gage readings are usually made at 8 a. m., seventy-fifth meridian time, east of the Continental Divide, and at 7 a. m., local time, west of the divide.

Extreme stages for a month, not observed at the regular time for reading the gage, are printed as a note at the foot of the table or page. This practice was begun in 1907.

In order that all readings for a given station may be comparable, a list of corrections to be applied to data in previous publications of **Daily River Stages** is included, to cover discrepancies due to changes in elevation of gage zeros from time to time and to other causes. This list immediately precedes the description of gages and bench marks.

The district centers and the drainage areas covered by each are given in the following tabulation:

DISTRICT CENTERS AND TERRITORIES

Albany, N. Y.	Hudson River system.
Atlanta, Ga.	Apalachicola River system.
Augusta, Ga.	Savannah and Ogeechee Rivers.
Binghamton, N. Y.	Susquehanna River system at and above Binghamton, N. Y.
Bismarck, N. Dak.	Missouri River system at and above Bismarck, N. Dak.
Brownsville, Tex.	Rio Grande below El Paso, Tex.
Cairo, Ill.	Ohio River below the mouth of the Wabash River; Mississippi River from Cape Girardeau, Mo., to include New Madrid, Mo., Tennessee River from below Decatur, Ala., to mouth.
Charleston, S. C.	Rivers of northeastern South Carolina.
Chattanooga, Tenn.	Tennessee River and tributaries from below Knoxville, Tenn., to Decatur, Ala.
Cincinnati, Ohio	Ohio River from below Point Pleasant, W. Va., to the mouth of the Kentucky River; the Little Miami and the southern tributaries of the Ohio River from and including the Great Kanawha to but not including the Kentucky River.
Columbia, S. C.	Santee River system.
Columbus, Ohio	Interior rivers of the State of Ohio, except the Miami, Little Miami, and Maumee.
Concord, N. H.	Merrimac River.
Dallas, Tex.	Trinity River above Long Lake Tex.
Davenport, Iowa	Mississippi River and tributaries from below Dubuque, Iowa, to and including the mouth of the Iowa River, but not including Keithsburg, Ill.
Dayton, Ohio	Miami River system.
Denver, Colo.	Colorado River and tributaries except the Gila River; Arkansas River in the State of Colorado, Pecos River, Rio Grande to El Paso, Tex.; Canadian River in the State of New Mexico.
Des Moines, Iowa	Des Moines River at and above Des Moines, Iowa.
Dubuque, Iowa	Mississippi River and tributaries from below La Crosse, Wis., to Dubuque, Iowa, except the upper Wisconsin River and its tributaries from headwaters to and including Wisconsin Rapids, Wis.
Evansville, Ind.	Ohio River from below Hawesville, Ky., to the mouth of but not including the Wabash River.
Fort Smith, Ark.	Arkansas and Neosho Rivers from the Kansas-Oklahoma line to Fort Smith, Ark., except the Canadian River; Verdigris River.
Fort Wayne, Ind.	Maumee River system.
Fresno, Calif.	San Joaquin River above the mouth of the Tuolumne River.
Grand Rapids, Mich.	Grand River from below Grand Ledge, Mich., to mouth.
Hannibal, Mo.	Mississippi River and tributaries from and including Keithsburg Ill., but not including the Iowa River, to and including Louisiana, Mo.; Des Moines River below Des Moines, Iowa.
Harrisburg, Pa.	Susquehanna River and tributaries except at and above Binghamton, N. Y.
Hartford, Conn.	Connecticut River system.

¹ Forecasts made daily throughout the year.

² Forecasts made daily during the season of navigation and in times of floods.

Houston, Tex.	Sabine, Neches, and Brazos Rivers; Trinity River from Long Lake, Tex., to mouth.
Indianapolis, Ind.	Wabash River system.
Kansas City, Mo.	Missouri from the mouth of the Platte River to Lexington, Mo.
Knoxville, Tenn. ¹	Tennessee River and tributaries at and above Knoxville, Tenn.
La Crosse, Wis. ¹	Mississippi River and tributaries from below St. Paul, Minn., to La Crosse, Wis.
Lansing, Mich.	Grand River from headwaters to and including Grand Ledge, Mich.; Saginaw River system.
Little Rock, Ark.	Arkansas River and tributaries below Fort Smith, Ark.; White, Black, and Ouachita Rivers in Arkansas.
Louisville, Ky. ¹	Ohio River from the mouth of the Kentucky River to include Hawesville, Ky., and Cannelton, Ind.; Kentucky River.
Macon, Ga.	Altamaha River system.
Memphis, Tenn. ¹	Mississippi River from below New Madrid, Mo., to the mouth of White River; St. Francis River.
Meridian, Miss.	Pearl and Pascagoula River systems.
Minneapolis, Minn. ¹	Mississippi River and tributaries at and above St. Paul, Minn.
Mobile, Ala. ¹	Tombigbee and Black Warrior Rivers.
Montgomery, Ala.	Alabama River system.
Moorhead, Minn.	Red River of the North, and tributaries.
Nashville, Tenn. ¹	Cumberland River system.
New Orleans, La. ¹	Mississippi River below Vicksburg, Miss.; Red River below Shreveport, La.; Atchafalaya River; Ouachita River in Louisiana.
Oklahoma City, Okla.	Canadian River east of boundary of New Mexico.
Omaha, Nebr.	Missouri River below Sioux City, Iowa, to the mouth of the Platte River; Platte River.
Parkersburg, W. Va. ¹	Ohio River and southern tributaries from below Wheeling to Point Pleasant, W. Va., excluding the Kanawha River.
Pensacola, Fla.	Escambia and Choctawhatchee River systems.
Philadelphia, Pa.	Delaware River system.
Phoenix, Ariz.	Gila River system.
Pittsburgh, Pa. ¹	Allegheny and Monongahela Rivers and tributaries; Ohio River from Pittsburgh, Pa., to Wheeling, W. Va.
Portland, Oreg.	Columbia River system.
Raleigh, N. C.	Rivers of central and eastern North Carolina and their tributaries.
Richmond, Va.	James River.
Sacramento, Calif.	Rivers of California, except the San Joaquin above the mouth of the Tuolumne, the Eel, and Los Angeles Rivers.
St. Louis, Mo. ¹	Mississippi River from below Louisiana, Mo., to but not including Cape Girardeau, Mo.; Missouri River east of Lexington, Mo., except the Osage River in Kansas; Illinois River; Meramec River; White River; Black Rivers in Missouri.
San Antonio, Tex.	Colorado, Guadalupe, Nueces, and San Antonio Rivers of Texas.
Shreveport, La. ¹	Red River at and above Shreveport, La.
Sioux City, Iowa	Missouri River and tributaries from below Bismarck, N. Dak., to Sioux City, Iowa.
Topeka, Kans.	Kansas River; Neosho and Osage Rivers in Kansas.
Vicksburg, Miss. ¹	Mississippi River from the mouth of White River to Vicksburg, Miss.; Yazoo River.
Washington, D. C.	Potomac River system.
Wausau, Wis.	Wisconsin River from headwaters to include Wisconsin Rapids, Wis.
Wichita, Kans.	Arkansas River in the State of Kansas.

LIST OF MOST FREQUENT ABBREVIATIONS USED IN THIS PUBLICATION

B. M. Bench mark.	U. S. G. S. United States Geological Survey.
P. B. M. Permanent bench mark.	U. S. R. S. United States Reclamation Service.
T. B. M. Temporary bench mark.	U. S. W. B. United States Weather Bureau.
msl. Mean sea level.	U. S. C. & G. S. United States Coast and Geodetic Survey.
mgl. Mean gulf level.	W. & P. R. B. Water and Power Resources Board of Pennsylvania.
M. R. C. Mississippi River Commission.	
U. S. E. United States Engineer Corps.	

¹ Forecasts made daily throughout the year.² Forecasts made daily during the season of navigation and in times of floods.

Unmarked stations make forecasts only during times of flood or when navigable stages are expected in times of low water.

MISCELLANEOUS DATA OF RIVER STATIONS

Station, river, distance above mouth of river, drainage area above station, flood stage, highest water and date, lowest water and date, and elevation of zero of gage above mean sea level—Continued

[Stations making occasional observations only are printed in italics. Reference notes are at the end of this table]

Station	River	Length of record	Elevation of zero of gage above msl.	Distance above mouth of river	Drainage area above station	Flood stage	Extreme stages			
							Highest	Date	Lowest	Date
MISSISSIPPI SYSTEM—continued										
Ohio Basin—Continued										
Tippecanoe City, Ohio	Miami	7	788.77	104.5	1,016	25			-1.3	Aug. 20
Dayton, Ohio	do	38	721.01	84.5	2,510	21	31.7	Mar. 25, 1913	-0.1	Sept. 5
Miamisburg, Ohio	do	8	678.44	68.0	2,720	22	33.6	Mar. 26, 1913	-0.3	Oct. 17
Franklin, Ohio	do	8	658.41	61.3	2,785	16	23.0	Mar. 26, 1913	0.2	Sept. 6
Middletown, Ohio	do		624.65	53.6	3,162	15	29.0	Mar. 26, 1913	0.0	Oct. 8
Hamilton, Ohio	do	21	500.00	35.3	3,630	17	39.2	Mar. 26, 1913	-1.4	Sept. 10
Hazard, Ky.	North Fork	6	838.02	90.0	442	20			1.1	Apr. 20
Beattyville, Ky.	Kentucky	28	623.35	255.0	1,856	30	46.3	Feb. 23, 1890	-2.6	June 6
Highbridge, Ky.	do	30	503.66	117.5	5,024	30	34.8	Dec. 26, 1926	4.7	Nov. 24
Frankfort, Ky.	do	45	402.17	65.0	5,396	31	44.0	Feb. —, 1878	3.2	Nov. 1
Bowling Green, Ky.	Barren	7	408.04	29.5	1,875	20	36.5	Jan. 3, 1919	4.3	Aug. 6
Munfordville, Ky.	Green	6		223	1,707	28			1.7	Oct. 4
Lock 8, Brownsville, Ky.	do	14	403.26	180.6	2,751	30	52.8	Jan. 10, 1913	6.1	Sept. 10
Lock 4, Woodbury, Ky.	do	14	373.80	149.5	5,446	33	54.4	Jan. 11, 1913	5.0	Sept. 17
Lock 2, Rumsey, Ky.	do	22	343.64	62.8	7,681	34	47.0	Mar. 31, 1904	3.7	July 28
Rochester, Ind.	Tippecanoe			116	650					
Anderson, Ind.	West Fork	20	827.4	281	503	12	22.1	Mar. 25, 1913		
Noblesville, Ind.	do	17	737.0	257	900	14	23.8	Mar. 25, 1913	3.0	Aug. 29
Indianapolis, Ind.	do	20	670.7	225	1,610	18	28.5	Mar. 25, 1913	1.6	Aug. 12
Elliston, Ind.	do	22	473.2	120	4,066	19	31.3	Mar. 27, 1913		
Edwardsport, Ind.	do	7	430.0	30	4,772	15			2.3	Dec. 25
Seymour, Ind.	East Fork	8	555.8	118	2,140	10	18.1	Mar. 26, 1913		
Williams, Ind.	do	10	472.6	63.5	4,672	10	20.6	Jan. 14, 1930	-1.5	Sept. 16
Shoals, Ind.	do	23	442.97	45	4,914	20	42.2	Mar. 28, 1913	1.7	Dec. 7
Decker, Ind.	White	17	387.4	20	10,717	18	29.0	Jan. 17, 1930	-1.0	Dec. 1
Bluffton, Ind.	Wabash	20	790.0	427	490	11	20.0	Mar. 26, 1913	0.7	June 23
Logansport, Ind.	do	10	570.00	341	3,830	15	25.5	Mar. 26, 1913	2.2	Dec. 4
La Fayette, Ind.	do	17	504.14	308.2	7,120	13	32.9	Mar. 26, 1913	0.3	July 9
Covington, Ind.	do	4	473.97	268	7,760	16	35.3	Mar. —, 1913	2.7	Dec. 4
Terre Haute, Ind.	do	26	445.70	214.4	12,200	16	31.3	Mar. 27, 1913	-2.0	Feb. 6
Vincennes, Ind.	do	26	306.43	127.8	14,000	14	25.2	Jan. 17, 1930	-1.0	Dec. 1
Mount Carmel, Ill.	do	42	372.08	94.5	28,590	16	31.0	Mar. 30, 1913	-0.2	Nov. 7
New River, Tenn.	New	23	1,096.0	67	3,367	25	41.2	Mar. 23, 1929	-0.3	Sept. 12
Rock Island, Tenn.	Caney Fork	4	647.41	80.0	1,658	30	38.8	Mar. 23, 1929	-0.6	Aug. 31
Williamsburg, Ky.	Cumberland	23		586	1,673	22	33.0	Mar. —, 1886	-2.5	Sept. 16
Burnside, Ky.	do	46	585.01	518.7		50	69.5	Jan. 29, 1918	-1.6	Nov. 8
Celina, Tenn.	do	27	487.46	383.1	7,323	45	57.2	Dec. 29, 1926	-0.2	Oct. 6
Carthage, Tenn.	do	35	438.0	308.4	10,754	40	59.1	Dec. 30, 1926	-0.4	Nov. 16
Nashville, Tenn.	do	56	368.23	192.6	12,878	40	56.2	Jan. 1, 1927	-0.1	Sept. 13
Clarksville, Tenn.	do	30	330.80	127.0	14,504	46	60.6	Jan. —, 1882	-1.0	Sept. 18
Lock F, Eddyville, Ky.	do	10	288.27	43.6	17,500	57	68.5	Jan. 5, 1927	-0.7	Oct. 14
Mendota, Va.	North Fork	25		38.3	530	8	17.5	June 14, 1907	0.0	Oct. —
Elizabethton, Tenn.	Watauga	21		24.4	665	14	22.0	Feb. —, 1902		
Bluff City, Tenn.	South Fork	30	1,368.09	34.2	810	12	15.0	May 22, 1901	-0.2	Dec. 1
Rogersville, Tenn.	Holston	29	1,053.86	103.8	3,033	14	38.4	Mar. 10, 1867	1.0	Oct. 23
Newport, Tenn.	Pigeon	24	1,040.03	6.9	630	6	17.0	Apr. 2, 1920	0.2	Sept. 1
Embsville, Tenn.	Nolichucky	11	1,513.04	77	804	10	13.8	Aug. 16, 1928	1.6	Sept. 8
Asheville, N. C.	French Broad	28	1,961.81	147.3	949	4	23.6	July 16, 1916	-2.0	Nov. 1
Marshall, N. C.	do	13	1,625.00	125.2	1,381	10	24.8	July 16, 1916	-0.4	Nov. 26
Dandridge, Tenn.	do	26	902.65	46.5	4,428	12	28.0	May 21, 1901	-0.7	Dec. 3
McGhee, Tenn.	Little Tennessee	20		18.8	2,447	20	39.0	Mar. —, 1867	1.0	Nov. 29
Speers Ferry, Va.	Clinch	35		201.0	1,107	20	26.6	Feb. 28, 1902	-1.3	Oct. 7
Clinton, Tenn.	do	48	776.62	59.5	2,083	25	45.0	Mar. 31, 1886	0.0	Dec. 4
Kingston, Tenn.	do	67	702.30	1.2	4,312	25	43.4	Mar. —, 1867	-0.9	Dec. 1
Charleston, Tenn.	Hiwassee	48	667.08	18.8	2,335	24	34.0	Mar. 31, 1886	0.1	Sept. 21
Fayetteville, Tenn.	Elk	5	637.67	88.4	806	14	28.2	Mar. 23, 1929		
Columbia, Tenn.	Duck	143	537.78	132.8	1,215	30	45.6	Mar. 30, 1902	-1.0	Oct. 6
Knoxville, Tenn.	Tennessee	148	797.50	648.1	8,835	20	44.4	Mar. 10, 1867	-1.9	Sept. 10
Loudon, Tenn.	do	56	726.16	591.3	12,258	25	47.0	Mar. —, 1867	-1.1	Nov. 2
Rockwood, Tenn.	do	47		553.0	16,903	20	44.5	Mar. —, 1867	-0.8	Dec. 1
Chattanooga, Tenn.	do	57	620.78	404.1	21,300	33	57.7	Mar. 11, 1867	0.0	Sept. —
Hales Bar, Tenn. (upper)	do	25		431.1	21,770	50	54.0	Mar. 11, 1867	0.0	Sept. —
Hales Bar, Tenn. (lower)	do	25		431.1	21,770	32	47.3	Mar. 11, 1867	-0.7	Nov. 9
Bridgeport, Ala.	do	38		414.4	22,598	24	41.2	Mar. —, 1867	-1.9	Nov. 10
Widows Bar, Ala. (upper)	do	12	585.00	408.0	22,742	17				
Widows Bar, Ala. (lower)	do	12		408.0	22,742	26				
Guntersville, Ala.	do	27	546.85	358.1	24,286	31	48.0	Mar. —, 1867	-0.5	Sept. 29
Decatur, Ala.	do	56	534.10	304.4	26,816	21	29.5	Mar. 15, 1867	-0.8	Oct. 25
Florence, Ala.	do	59	400.85	256.5	30,692	18	32.5	Mar. 19, 1867	-3.0	Oct. 8
Riverton, Ala.	do	35	355.50	226.5	31,465	33	58.4	Mar. 20, 1867	4.3	Oct. 12
Savannah, Tenn.	do	124		189.5	33,009	40	59.6	Mar. 21, 1867	-2.6	Sept. 8
Johnsonville, Tenn.	do	52	320.75	96.5	38,402	31	48.0	Mar. 24, 1867	-1.9	Sept. 11
Pittsburgh, Pa.	Ohio	69	694.00	981.0	19,045	25	38.7	Mar. 15, 1907	1.9	Sept. 28
Dam 2, Coraopolis, Pa.	do	24	683.43	971.8	19,370	26	36.5	Mar. 15, 1907	0.5	Dec. 18
Dam 6, Beaver, Pa.	do	38	655.4	951.7	22,650	30	46.6	Mar. 15, 1907	0.1	Sept. 6
Dam 12, Wheeling, W. Va.	do	20	614.00	893.6	24,900	36	49.3	Feb. 7, 1884	-0.4	Aug. 19
Dam 13, McMechen, W. Va.	do	29	605.00	884.9	25,000	43	53.4	Feb. 7, 1884	0.0	Aug. 27
St. Marys, W. Va.	do	23	576.91	826.1	29,000	28	54.4	Mar. 29, 1913	-1.0	Oct. 4
Marietta, Ohio	do	58	568.38	809.0	35,500	33	58.6	Mar. 29, 1913	1.3	Oct. 23
Parkersburg, W. Va.	do	43	561.40	796.4	37,950	36	58.9	Mar. 29, 1913	0.0	Oct. 30
Dam 19, Little Hocking, Ohio	do	14	557.30	788.8	38,555	39	59.5	Mar. 29, 1913	0.0	Oct. 30
Dam 20, Belleville, W. Va.	do	14	550.7	778.5	39,770	45	60.2	Mar. 29, 1913	-0.3	Aug. 23
Dam 22, Ravenswood, W. Va.	do	14	538.40	760.1	40,390	42	63.1	Mar. 30, 1913	-2.2	Sept. 15
Dam 25, Point Pleasant, W. Va.	do	3	514.8	720.3	41,000	40				
Point Pleasant, W. Va.	do	42	513.54	715.8		40	6.8	Mar. 30, 1913	0.0	Aug. 1
Dam 26, Hogsett, W. Va.	do	16	805.3	702.5		50	66.2	Mar. 30, 1913	0.0	Oct. 18
Dam 28, North Kenova, Ohio	do	17	492.0	669.4	55,835	50	64.2	Mar. 31, 1913	0.0	Oct. —
Dam 29, Normal, Ky.	do	14	484.8	661.1	60,587	50	68.3	Mar. 31, 1913	-0.3	Oct. 27
Dam 30, Riggs, Ky.	do	11	477.7	641.6	61,522	52	67.2	Mar. 31, 1913	0.0	Oct. 21
Portsmouth, Ohio	do	44	470.9	625.0	68,730	50	67.9	Mar. 31, 1913	0.9	Oct. 21
Dam 32, Vanceburg, Ky.	do	11	463.1	598.4	69,207	53	65.9	Mar. 31, 1913	0.0	Oct. 29
Dam 33, Maysville, Ky.	do	6	455.0	575.9	69,900	48	66.0	Mar. 31, 1913	0.0	Oct. 29
Dam 35, Oneonta, Ky.	do	10	417.30	530.0	70,835	45	64.1	Feb. 14, 1884	-0.7	Nov. 10
Dam 36, Cold Springs, Ky.	do	5	435.3	520.1	70,947	50	70.6	Feb. 14, 1884		
Cincinnati, Ohio	do	73	429.76	510.8	76,320	52	71.1	Feb. 14, 1884	1.9	Sept. 17

RIVER GAGE READINGS

MISSISSIPPI SYSTEM—OHIO BASIN—Continued

1930	January	February	March	April	May	June	July	August	September	October	November	December
WABASH RIVER—BLUFFTON, IND.												
[Flood stage, 11 feet]												
1	6.2	2.4	6.6	4.0	2.6	1.2						(b)
2	9.6	2.4	5.4	3.8	2.8	1.2						1.3
3	10.4	2.4	3.8	3.0	2.6	1.2						1.3
4	11.0	2.4	3.4	3.0	2.0	1.2						1.3
5	9.8	2.2	3.0	2.6	1.8	1.2						1.3
6	7.6	2.4	3.0	2.4	1.7	1.2		1.2				1.3
7	7.6	2.4	2.8	2.2	1.6	1.2		1.7				1.3
8	10.1	2.6	3.0	2.6	1.6	1.2						1.3
9	10.3	2.8	3.0	2.4	1.6	1.2						1.3
10	11.8	2.8	2.8	2.2	1.6	1.2						1.3
11	11.0	3.0	2.8	2.0	1.6	1.1						1.3
12	11.1	3.1	2.8	2.0	1.5	1.1						1.3
13	12.6	3.8	2.8	1.9	1.5	1.1						1.2
14	13.6	4.5	2.8	1.9	1.5	1.1						1.2
15	14.7	5.1	2.6	1.8	1.5	1.1						1.2
16	13.3	4.8	2.6	1.8	1.4	1.2						1.2
17	10.9	4.6	2.4	2.4	1.4	1.2						1.2
18	8.6	3.8	2.8	5.8	1.5	1.2						1.2
19	5.5	3.6	3.4	5.0	1.6	1.2						1.2
20	4.8	3.4	4.1	3.5	1.6	1.2						1.2
21	3.8	3.0	4.0	3.2	1.6	1.1						1.2
22	3.6	3.0	3.5	2.6	1.6	1.1						1.2
23	3.4	3.6	2.8	2.6	1.5	1.1						1.2
24	3.0	4.0	2.8	2.4	1.4	1.1						1.2
25	3.0	4.8	5.0	2.2	1.4	1.1						1.2
26	3.0	7.5	5.6	2.2	1.3	1.1						1.2
27	2.8	8.0	4.6	2.0	1.3	1.1						1.2
28	2.8	7.8	4.2	1.9	1.3	1.1						1.2
29	2.6		4.2	1.9	1.2	1.1						1.2
30	2.6		4.0	2.0	1.2	1.1						1.2
31	2.6		4.0		1.2							1.2
Mean	7.5	3.8	3.6	2.6	1.6	1.2						1.2
WABASH RIVER—LOGANSPOUT, IND.												
[Flood stage, 15 feet]												
1	7.2	4.4	7.0	5.2	4.2	3.3						3.5
2	12.6	4.2	6.2	5.0	4.4	3.3			3.2			4.0
3	13.7	4.2	5.4	4.7	4.2	3.3						3.6
4	12.3	4.4	4.8	4.5	3.9	3.2						3.5
5	10.0	5.0	4.8	4.3	3.8	3.2						3.5
6	8.0	5.1	4.6	4.2	3.8	3.2						3.4
7	8.4	4.9	4.6	4.0	3.7	3.3						3.3
8	11.4	4.8	4.5	4.0	3.7	3.3						3.3
9	13.1	4.6	4.4	3.9	3.7	3.3						3.3
10	12.7	4.7	4.4	3.9	3.7	3.3						3.3
11	11.5	4.5	4.4	3.9	3.6	3.3						3.3
12	10.3	4.5	4.3	3.8	3.6	3.3						3.2
13	12.4	4.7	4.2	3.8	3.6	3.3						3.2
14	14.6	5.5	4.2	3.7	3.6	3.3						3.2
15	17.6	5.7	4.1	3.7	3.6	3.3						3.2
16	16.4	5.1	4.0	4.0	3.6	3.2						3.2
17	13.1	4.6	3.9	4.8	3.6	3.2						3.2
18	9.6	4.6	3.9	7.1	3.6	3.3						3.1
19	7.0	4.5	4.9	8.2	3.6	3.5						3.1
20	6.1	4.5	5.2	7.8	3.6	3.5						3.1
21	5.8	4.9	5.0	5.9	3.6	3.4						3.1
22	5.3	5.2	4.7	6.4	3.6	3.4						3.1
23	4.8	5.5	4.3	5.8	3.6	3.4						3.1
24	4.5	6.4	4.2	5.2	3.5	3.3						3.2
25	4.5	8.1	4.0	4.8	3.5	3.3						3.2
26	4.5	9.7	6.2	4.5	3.5	3.3						3.2
27	4.4	10.0	6.3	4.3	3.4	3.1	4.3					3.2
28	4.4	8.6	5.6	4.2	3.3	3.2						3.2
29	4.6		5.8	4.1	3.3	3.2						3.2
30	4.5		6.0	4.1	3.3	3.2				3.4		3.2
31	4.5		5.6		3.3							3.2
Mean	9.0	5.5	4.9	4.8	3.6	2.3						3.3
WABASH RIVER—LA FAYETTE, IND.												
[Flood stage, 13 feet]												
1	11.3	7.4	12.1	6.7	4.3	1.6	1.3	1.5	1.6	1.4	1.1	2.0
2	15.9	7.1	9.1	6.3	4.7	1.6	1.3	1.1	1.3	1.2	1.2	2.3
3	19.8	6.2	7.7	5.8	4.3	2.1	1.3	1.1	2.1	1.3	1.2	2.7
4	20.3	6.8	7.7	5.0	4.0	1.8	1.4	1.1	1.4	1.3	1.2	2.6
5	18.7	7.6	5.7	4.6	3.6	1.6	1.3	1.2	1.5	1.1	1.2	2.3
6	16.2	8.1	5.6	4.2	3.6	1.5	1.9	1.4	1.2	1.1	1.2	2.2
7	11.1	7.5	5.2	3.5	3.2	1.8	1.4	1.3	1.2	1.2	1.1	1.8
8	17.1	6.6	4.8	3.9	3.2	1.7	1.3	2.5	1.2	1.4	1.1	1.6
9	18.9	6.4	4.3	3.6	2.9	1.7	1.4	2.9	1.2	1.3	1.1	2.1
10	19.7	6.2	4.3	3.5	2.9	1.9	1.2	2.4	1.3	1.3	1.1	2.1
11	19.1	5.6	4.6	3.4	3.1	1.9	1.4	1.8	1.2	1.4	1.1	1.4
12	17.7	5.1	4.5	3.3	2.9	1.8	1.2	1.6	1.1	1.4	1.1	1.4
13	18.0	5.5	4.2	3.3	2.9	1.8	1.4	1.6	1.1	1.0	1.1	1.6
14	20.6	6.1	4.0	3.1	3.6	1.6	1.1	1.5	1.2	1.3	1.1	1.8
15	23.3	7.4	3.7	3.3	2.9	1.6	1.1	1.4	1.3	1.3	1.1	1.4
16	23.9	6.8	3.4	4.5	2.8	1.3	1.1	1.3	1.3	1.2	1.1	1.5
17	23.2	5.7	3.0	7.3	2.7	1.5	1.1	1.3	1.2	1.5	1.3	1.0
18	21.2	4.8	3.8	9.1	2.5	1.7	1.2	1.3	1.2	1.2	1.2	1.0
19	17.2	4.8	4.1	12.5	2.5	1.6	1.1	1.2	1.1	1.2	1.1	1.4
20	11.3	4.4	5.3	11.1	3.5	1.8	1.1	1.1	1.2	1.1	1.1	1.8
21	8.9	4.4	5.1	9.8	3.4	2.0	1.1	1.2	1.2	1.6	1.1	1.8
22	7.9	6.0	4.7	10.6	3.2	1.9	1.2	1.3	1.1	1.2	1.1	1.4
23	8.3	6.5	4.4	9.5	3.2	1.6	1.0	1.0	1.1	1.6	1.1	1.1
24	9.3	7.6	3.9	7.7	2.6	1.6	1.1	1.0	1.1	1.2	1.1	1.0
25	9.6	10.9	4.1	6.5	2.6	1.6	1.0	0.9	1.3	1.1	1.1	1.2
26	9.3	14.2	4.7	5.7	2.1	1.4	1.1	1.2	1.4	1.1	1.2	1.3
27	8.9	15.4	7.6	5.0	2.6	1.5	1.1	1.2	1.1	1.1	1.2	1.3
28	9.4	14.8	6.7	4.8	2.3	1.4	2.8	1.1	1.1	1.1	0.9	1.5
29	8.8		6.4	4.8	2.5	1.4	1.8	1.0	1.2	1.1	1.1	1.1
30	8.1		5.9	4.7	1.9	1.3	2.0	1.0	1.4	1.1	1.4	1.4
31	7.4		7.5		1.8		1.6	1.1		1.1		1.0
Mean	18.7	7.7	5.4	5.9	3.0	1.7	1.3	1.4	1.3	1.2	1.1	
WABASH RIVER—COVINGTON, IND.												
[Flood stage, 16 feet]												
1	9.6	14.9	18.9	10.4	7.8	4.2						3.3
2	17.1	14.6	16.9	9.9	7.4	4.6						3.9
3	20.6	14.0	13.5	9.5	7.6	4.2						3.9
4	23.0	14.3	11.3	8.9	7.3	4.2						4.2
5	23.8	15.2	9.6	8.1	6.9	4.1						4.3
6	22.9	16.3	9.2	7.8	6.4	4.0	3.5					4.2
7	21.3	16.7	8.9	7.3	6.3	4.0						4.0
8	20.9	17.0	8.4	6.6	6.1	4.2				2.7		3.6
9	21.2	16.6	8.3	6.4	6.0	4.1						3.4
10	22.5	16.1	8.0	6.3	5.8	4.0						3.6
11	23.1	15.6	7.6	6.2	5.7	4.0						3.8
12	22.7	15.6	7.9	6.1	5.6	4.1						3.3
13	22.9	15.5	7.4	6.0	5.3	4.0						3.2
14	23.4	12.5	7.2	6.0	5.4	3.9						3.4
15	25.3	9.4	6.9	5.9	5.8	3.9						3.4
16	27.0	9.9	6.7	7.6	5.5	3.8						3.1
17	27.7	9.1	6.4	9.7	5.3	3.7						3.0
18	26.8	8.4	6.4	12.9	5.3	3.7						2.9
19	24.4	8.3	6.5	14.4	5.2	3.8						2.9
20	23.2	8.0	7.3	15.8	5.2	3.8						3.0
21	23.0	8.0	8.2	15.9	5.9	3.7						3.5
22												

MISSISSIPPI SYSTEM—OHIO BASIN—Continued

1930	January	February	March	April	May	June	July	August	September	October	November	December
WABASH RIVER—TERRE HAUTE, IND.												
(Flood stage, 16 feet)												
1	10.8	12.8	16.3	8.7	6.5	1.8	1.1	1.0	0.2	0.4	0.2	0.2
2	14.5	12.3	16.4	8.6	6.0	1.7	1.0	0.8	0.2	0.4	0.2	0.2
3	16.6	11.6	15.8	7.8	5.7	2.0	1.0	0.7	0.4	0.4	0.2	0.2
4	17.8	10.7	14.6	7.4	5.6	1.7	1.0	0.6	0.4	0.3	0.2	1.1
5	18.7	10.0	12.0	6.5	5.4	1.6	1.0	0.5	1.0	0.3	0.2	1.1
6	19.2	9.7	9.9	5.8	5.0	1.6	0.8	0.4	1.0	0.2	0.2	1.4
7	19.5	9.6	8.8	5.6	4.7	1.4	2.4	0.2	0.6	0.3	0.2	1.4
8	20.3	9.5	8.0	4.8	4.2	1.4	2.2	0.2	0.4	0.3	0.1	1.1
9	20.7	9.2	7.4	4.7	4.0	1.4	1.5	0.2	0.4	0.3	0.1	0.8
10	20.7	8.9	6.8	4.3	3.7	1.5	1.0	1.0	0.3	0.3	0.1	0.6
11	20.6	8.4	6.3	4.0	3.4	1.4	0.9	1.2	0.2	0.5	0.2	0.5
12	20.4	8.2	6.2	3.8	3.4	1.4	0.8	1.3	0.2	0.6	0.2	0.8
13	21.7	9.2	6.0	3.8	3.0	1.3	0.8	1.0	0.3	0.4	0.2	0.4
14	22.0	9.7	5.8	3.6	3.0	1.2	0.8	1.0	0.2	0.5	0.2	0.6
15	23.3	9.5	5.4	3.0	3.4	1.2	0.7	0.8	0.4	0.5	0.2	0.6
16	23.8	9.0	4.9	3.5	3.5	1.2	0.7	0.8	0.5	0.5	0.2	0.5
17	23.3	8.2	4.7	6.4	3.0	1.3	0.5	0.8	0.5	0.5	0.2	0.6
18	23.0	7.4	4.7	9.2	3.0	1.3	0.5	0.6	0.5	0.5	0.2	0.4
19	23.0	6.9	4.4	11.5	3.0	1.2	0.5	0.5	0.6	0.5	0.3	0.2
20	22.1	6.6	5.0	12.2	2.9	1.2	0.4	0.4	0.5	0.5	0.3	0.3
21	21.0	6.6	5.4	12.6	2.9	1.2	0.4	0.5	0.4	0.3	0.3	0.3
22	19.0	6.8	6.0	13.2	3.8	1.2	0.3	0.2	0.3	0.3	0.3	0.2
23	17.5	7.4	5.7	13.5	3.6	1.3	0.2	0.2	0.3	0.3	0.2	0.2
24	17.2	8.8	5.2	13.4	3.6	1.3	0.4	0.2	0.3	0.4	0.2	0.2
25	17.0	12.7	4.9	12.4	3.0	2.4	0.4	0.2	0.3	0.4	0.2	0.1
26	16.4	14.8	5.2	10.3	2.6	1.7	0.4	0.3	0.3	0.4	0.2	0.2
27	15.8	15.6	5.8	8.6	2.6	1.5	0.3	0.3	0.4	0.4	0.2	0.3
28	15.5	16.0	7.0	7.5	2.4	1.2	0.4	0.3	0.4	0.3	0.2	0.2
29	14.7	-----	8.0	7.1	2.4	1.0	0.4	0.3	0.4	0.2	0.2	0.4
30	13.7	-----	8.0	6.7	2.2	1.0	1.4	0.2	0.4	0.2	0.2	0.3
31	13.5	-----	8.4	-----	2.1	1.3	1.3	0.2	0.2	0.2	0.2	0.0
Mean	19.6	9.6	7.7	7.7	3.7	1.4	0.8	0.5	0.4	0.4	0.2	0.5

1930	January	February	March	April	May	June	July	August	September	October	November	December
WABASH RIVER—MOUNT CARMEL, ILL.												
(Flood stage, 16 feet)												
1	12.7	12.0	17.7	8.8	6.8	2.7	1.9	1.1	0.7	0.9	0.6	0.6
2	13.2	10.8	18.2	9.0	6.5	2.5	1.8	1.3	0.7	0.8	0.6	0.6
3	15.0	10.4	18.9	10.0	6.3	2.4	1.8	1.2	0.7	0.8	0.6	0.6
4	16.4	10.0	19.5	10.9	5.8	2.2	1.6	1.1	0.7	0.8	0.6	0.6
5	17.2	10.8	19.8	11.2	5.7	2.3	1.5	1.0	0.7	0.8	0.6	0.6
6	18.0	12.4	19.6	10.9	5.7	2.2	1.5	1.0	0.8	0.8	0.6	1.1
7	19.0	12.6	18.1	10.1	5.6	2.1	1.5	0.9	0.8	0.7	0.6	1.4
8	20.4	13.8	15.3	9.0	5.1	2.0	1.4	0.8	1.0	0.8	0.6	1.5
9	21.9	13.8	12.4	7.8	4.8	2.0	1.8	0.8	0.9	0.8	0.6	1.4
10	22.9	13.7	10.7	6.8	4.7	2.0	2.0	0.8	0.9	0.8	0.6	1.3
11	23.7	13.4	9.9	6.3	4.4	2.0	1.8	0.9	0.7	0.8	0.6	1.3
12	24.3	13.0	9.5	6.0	4.2	2.0	1.7	0.9	0.7	0.8	0.6	1.2
13	25.0	13.0	9.0	5.5	4.0	1.9	1.5	1.1	0.7	0.8	0.6	1.1
14	25.7	14.7	8.8	5.3	3.8	2.0	1.4	1.3	0.7	0.8	0.6	1.2
15	26.0	16.0	8.1	5.1	3.7	1.9	1.3	1.3	1.1	0.8	0.6	1.1
16	26.6	16.3	7.5	5.0	3.7	2.0	1.2	1.2	1.8	0.8	0.6	1.0
17	26.9	16.0	7.0	4.8	3.7	2.0	1.2	1.1	2.5	0.9	0.6	1.0
18	26.6	15.7	6.7	5.1	3.8	1.9	1.2	1.1	2.0	1.0	0.6	1.0
19	26.5	15.0	6.5	6.5	3.8	1.9	1.1	1.2	1.8	0.9	0.6	1.0
20	26.2	14.0	6.2	8.0	3.7	1.8	1.1	1.0	1.5	0.8	0.6	0.9
21	25.9	12.0	6.0	9.4	3.5	1.8	1.1	0.9	1.4	0.7	0.6	0.8
22	25.8	10.0	6.0	10.1	3.4	1.9	1.1	0.8	1.2	0.7	0.6	0.8
23	25.6	9.7	6.0	10.6	3.4	1.8	1.0	0.8	1.1	0.7	0.7	0.8
24	25.2	9.5	6.5	10.8	3.7	1.8	1.0	0.8	1.0	0.7	0.6	0.8
25	24.8	10.2	6.5	10.9	3.6	1.8	1.0	0.8	1.1	0.7	0.6	0.8
26	23.6	12.2	6.8	10.8	3.5	1.8	1.0	0.7	1.3	0.7	0.6	0.8
27	21.8	15.4	7.0	10.3	3.4	2.1	1.0	0.7	0.9	0.8	0.6	0.6
28	19.4	16.8	7.5	9.2	3.0	2.0	1.0	0.7	0.8	0.8	0.6	0.6
29	17.5	-----	8.0	8.0	2.9	1.9	0.9	0.6	0.7	0.7	0.6	0.7
30	15.1	-----	8.2	8.1	2.7	2.0	0.9	0.7	0.9	0.6	0.6	0.7
31	13.8	-----	8.7	-----	2.7	-----	0.9	0.7	-----	0.6	0.6	0.7
Mean	21.7	13.0	10.5	8.3	4.2	2.0	1.3	0.9	1.1	0.8	0.6	0.9

1930	January	February	March	April	May	June	July	August	September	October	November	December
WABASH RIVER—VINCENNES, IND.												
(Flood stage, 14 feet)												
1	8.8	8.9	13.7	6.9	5.9	-----	-----	-----	0.1	-0.1	-0.1	-----
2	9.5	8.5	14.2	7.5	5.6	-----	-----	-----	0.1	-0.1	-0.1	-----
3	12.4	8.3	14.4	8.2	5.4	-----	-----	-----	0.1	-0.1	-0.1	-----
4	13.2	8.0	14.7	7.6	5.0	-----	-----	-----	0.1	-0.1	-0.1	-----
5	13.7	8.4	14.8	6.7	4.8	-----	-----	-----	0.1	-0.1	-0.1	-----
6	14.3	8.5	14.4	5.9	4.7	-----	-----	-----	0.1	-0.1	-0.1	-----
7	15.9	8.2	12.8	5.4	4.5	-----	-----	-----	0.1	-0.1	-0.1	-----
8	18.1	8.6	10.1	5.0	4.2	-----	-----	-----	0.1	-0.1	-0.1	-----
9	20.3	9.2	8.3	4.5	4.0	-----	-----	-----	0.1	-0.1	-0.1	-----
10	21.9	9.4	7.1	4.0	3.7	-----	-----	-----	0.1	-0.1	-0.1	-----
11	22.8	9.6	6.5	3.9	3.4	-----	-----	-----	0.1	-0.1	-0.1	-----
12	23.4	9.3	6.0	3.7	3.3	-----	-----	-----	0.2	0.0	0.4	-----
13	23.8	10.8	5.6	3.5	3.2	-----	-----	-----	0.2	0.0	0.4	-----
14	23.4	10.9	5.4	3.3	3.0	-----	-----	-----	0.2	-0.1	0.5	-----
15	23.9	10.4	5.3	3.2	-----	-----	-----	-----	0.2	-0.1	0.5	-----
16	24.9	9.7	4.9	3.2	-----	-----	-----	-----	0.2	-0.1	0.3	-----
17	25.2	8.8	4.7	3.2	-----	-----	-----	-----	0.2	-0.1	0.2	-----
18	24.8	8.4	4.4	4.6	3.0	-----	-----	-----	0.1	-0.1	0.3	-----
19	23.8	7.4	4.3	6.5	-----	-----	-----	-----	0.1	-0.1	0.3	-----
20	23.0	6.7	4.1	8.3	-----	-----	-----	-----	0.1	-0.1	0.2	-----
21	22.4	6.4	4.1	9.3	-----	-----	-----	-----	0.2	0.0	0.0	-----
22	22.2	6.1	4.5	9.8	-----	-----	-----	-----	0.2	0.0	0.0	-----
23	21.8	6.3	4.9	10.1	-----	-----	-----	-----	0.1	0.1	0.0	-----
24	21.3	7.3	4.9	10.6	-----	-----	-----	-----	0.2	0.0	0.0	-----
25	19.8	8.1	4.6	10.7	3.1	-----	-----	-----	0.2	0.1	0.0	-----
26	17.9	11.4	4.9	10.4	3.3	-----	-----	-----	0.1	0.1	0.0	-----
27	16.0	12.7	4.7	9.3	-----	-----	-----	-----	0.1	0.1	0.0	-----
28	13.8	13.4	5.1	8.0	-----	-----	-----	-----	0.1	0.1	0.0	-----
29	12.5	-----	5.6	6.4	-----	-----	-----	-----	0.2	0.0	-0.1	-----
30	10.8	-----	6.4	6.1	-----	-----	-----	-----	0.1	0.0	-0.1	-----
31	9.6	-----	6.6	-----	-----	-----	-----	-----	0.0	0.0	0.1	-----
Mean	18.2	8.9	7.5	6.5	4.1	-----	-----	-----	0.1	-0.1	0.3	-----

1930	January	February	March	April	May	June	July	August	September	October	November	December
CUMBERLAND-SOUTH FORK-NEW RIVER—NEW RIVER, TENN.												
(Flood stage, 25 feet)												
1	3.1	1.7	3.2									

Indexes to river stations—Continued

Name	River	Miscellaneous data	Gage readings	Name	River	Miscellaneous data	Gage readings
Sissonville, W. Va.	Pocataligo	Page 6	Page	Wakefield, Kans.	Republican	Page 5	Page
Smithfield, N. C.	Neuse	4	31	Walhonding, Ohio	Walhonding	6	
Smithville, Tex.	Colorado	9	136	Wamego, Kans.	Kansas	5	63
Solomon, Kans.	Smoky Hill	5	63	Wapello, Iowa	Iowa	5	
Speers Ferry, Va.	Clinch	7	90	Warren, Pa.	Allegheny	6	69
Springbank, Ark.	Red	9	124	Warsaw, Ill.	Mississippi	5	69
Springfield, Mass.	Connecticut	3	21	Warsaw, Mo.	Osage	6	65
Springfield, Ohio	Mad	6	83	Washington, N. Dak.	Missouri	6	
Steelville, Mo.	Meramec	5	55	Washington, Tex.	Brazos	9	135
Stuyvesant, N. Y.	Hudson	3		Waterloo, Oreg.	South Santiam	10	148
Sunbury, Pa.	Susquehanna	3	27	Wausau, Wis.	Wisconsin	5	51
Swan Lake, Miss.	Tallahatchie	9		Waverly, Mo.	Missouri	6	68
Tarboro, N. C.	Tar	4	31	Wayne, W. Va.	Twelve Pole Creek	6	79
Terre Haute, Ind.	Wabash	7	91	Webbers Falls, Okla.	Arkansas	8	120
Tescott, Kans.	Saline	5		Weiser, Idaho	Snake	10	146
The Dalles, Oreg.	Columbia	10	150	Weldon, N. C.	Roanoke	4	30
Three Links, Oreg.	Clackamas	10		Wenatchee, Wash.	Columbia	10	150
Three Mile Post, S. C.	Saluda	4	34	West Hartford, Vt.	White	3	
Three Rivers, Tex.	Nueces	9	137	West Newton, Pa.	Youghiogheny	6	71
Tiffin, Ohio	Sandusky	3	19	Weston, W. Va.	Monongahela, West Fork	6	72
Tippecanoe City, Ohio	Miami	7	84	West Point, Ga.	Chattahoochee	4	40
Tomahawk, Wis.	Spirit	5	50	Wetumpka, Ala.	Coosa	4	44
Topeka, Kans.	Kansas	5	63	Whalen, Wyo.	North Platte	9	
Topock, Ariz.	Colorado	10	141	Whitecliffs, Ark.	Little	8	122
Towanda, Pa.	Susquehanna	3	27	White River Junction, Vt.	Connecticut	3	20
Tracy, Iowa	Des Moines	5	53	Wichita, Kans.	Arkansas	8	119
Trenton, Mo.	Grand, Thompsons Fork	5	64	Wichita, Kans. (Midian Shrine Boat-house)	Little Arkansas	8	
Trenton, N. J.	Delaware	3	24	Wickenburg, Ariz.	Hasaayampa	10	
Tribes Hill, N. Y.	Mohawk	3	22	Widows Bar Dam, Ala.	Tennessee	7	99
Trinidad, Colo.	Purgatoire	8		Wilkes-Barre, Pa.	Susquehanna	3	27
Trinidad, Tex.	Trinity	9	133	Williams, Ind.	White, East Fork	7	89
Troy, Ala.	Concub	4		Williamsburg, Ky.	Cumberland	7	
Troy, N. Y.	Hudson	3		Williamson, W. Va.	Big Sandy, Tug Fork	6	70
Tualatin, Oreg.	Tualatin	10		Williamsport, Pa.	Susquehanna, West Branch	3	26
Tulsa, Okla.	Arkansas	8	119	Williamston, Mich.	Red Cedar	3	
Tuscumbia, Mo.	Osage	6	65	Williamston, N. C.	Roanoke	4	
Ubrichville, Ohio	Stillwater Creek	6	74	Williamsville, Mo.	Black	8	
Umatilla, Oreg.	Columbia	10	150	Williston, N. Dak.	Missouri	6	
Union, Mo.	Bourbeuse	5	55	Winfield, Kans.	Walnut	8	
Union, Okla.	Canadian	8		Winona, Minn.	Mississippi	5	57
Upper Sandusky, Ohio	Sandusky	3	18	Wisconsin Rapids, Wis.	Wisconsin	5	51
Utica, N. Y.	Mohawk	3		Wolf Point, Mont.	Missouri	6	
Valley Junction, Tex.	Brazos	9	134	Woodsville, N. H.	Connecticut	3	20
Valley Park, Mo.	Meramec	5	56	Woodward, Okla.	North Canadian	8	117
Vancouver, Wash.	Columbia	10	150	Wyandotte, Okla.	Neosho	8	116
Van Meter, Iowa	Raccoon	5	52	Yancopin, Ark.	Arkansas	9	121
Vassar, Mich.	Cass	3		Yankton, S. Dak.	Missouri	6	66
Vicksburg, Miss.	Mississippi	9	128	Yazoo City, Miss.	Yazoo	9	126
Victoria, Tex.	Guadalupe	9	137	Yuma, Ariz.	Colorado	10	141
Vincennes, Ind.	Wabash	7	91	Zanesville, Ohio	Muskingum	6	74
Waco, Tex.	Brazos	9	134				
Wahpeton, N. Dak.	Red River of the North	3					

Omission of page number under "gage reading" indicates the record is short and broken, and is not published. A copy of the available readings may be obtained by application to the Chief of the Weather Bureau.

UNITED STATES DEPARTMENT OF AGRICULTURE
WEATHER BUREAU, CHARLES F. MARVIN, Chief

DAILY RIVER STAGES

AT RIVER GAGE STATIONS ON THE PRINCIPAL RIVERS OF THE UNITED STATES

REFERENCE
DO NOT CIRCULATE

VOLUME XXIX

1931

Community Affairs File

COMPILED BY MONTROSE W. HAYES
PRINCIPAL METEOROLOGIST



UNITED STATES
GOVERNMENT PRINTING OFFICE
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INTRODUCTION

This volume, containing the daily river stages for 1931, is the twenty-ninth of a series of Daily River Stages on the Principal Rivers of the United States, the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.

II. Stages of the Mississippi River and of its Principal Tributaries, Except the Ohio River, 1860 to 1889.

III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.

DAILY STAGES AT RIVER GAGE STATIONS ON THE PRINCIPAL RIVERS OF THE UNITED STATES

Volume IV. 1890 to 1892.	Volume XI. 1911 and 1912.	Volume XVII. 1919.	Volume XXIII. 1925.
V. 1893 to 1895.	XII. 1913 and 1914.	XVIII. 1920.	XXIV. 1926.
VI. 1896 to 1899.	XIII. 1915.	XIX. 1921.	XXV. 1927.
VII. 1900 to 1904.	XIV. 1916.	XX. 1922.	XXVI. 1928.
VIII. 1905 and 1906.	XV. 1917.	XXI. 1923.	XXVII. 1929.
IX. 1907 and 1908.	XVI. 1918.	XXII. 1924.	XXVIII. 1930.
X. 1909 and 1910.			

Volumes XVI to XXIX can be bought from the Superintendent of Documents, Washington, D. C.; Volumes I to XV are out of print and can not be supplied.

The river stages are the vertical distances, in feet and tenths, of the water surface above or below the zero of the gage. The zero has, as a rule, been set at or near the lowest known water.

Gage readings are usually made at 8 a. m., seventy-fifth meridian time, east of the Continental Divide, and at 7 a. m., local time, west of the divide.

Extreme stages for a month, not observed at the regular time for reading the gage, are printed as a note at the foot of the table or page. This practice was begun in 1907.

In some cases the zero planes of gages have been changed, either through accident or through necessary removals. The stations at which changes have occurred are given in a table headed "Corrigenda," and the corrections required to reduce previous readings to the zero now in use are also given in the table if they have not been previously published.

The country is divided into districts, and each district has a designated center at which the administrative and forecasting work is carried on. The following table shows the centers, and their districts. Superior figure ⁽¹⁾ opposite a center indicates that stage forecasts are made daily throughout the year, and ⁽²⁾ indicates that stage forecasts are made daily during seasons of navigation and in times of flood. At those centers not bearing a reference forecasts are made only during times of flood.

ADMINISTRATIVE AND FORECASTING CENTERS AND THEIR DISTRICTS

Albany, N. Y.-----	Hudson River and tributaries.
Atlanta, Ga.-----	Apalachicola River and tributaries.
Augusta, Ga.-----	Savannah and Ogeechee Rivers and tributaries.
Binghamton, N. Y.---	Susquehanna River and tributaries at and above Binghamton, N. Y.
Bismarck, N. Dak.---	Missouri River and tributaries at and above Bismarck, N. Dak.
Brownsville, Tex.---	Rio Grande and Texas tributaries (except the Pecos) below El Paso, Tex.
Cairo, Ill. ¹ -----	Ohio River below the mouth of the Wabash; Mississippi River from and including Cape Girardeau, Mo., to and including New Madrid, Mo.; Tennessee River and tributaries below Decatur, Ala.
Charleston, S. C.---	Rivers of northeastern South Carolina.
Chattanooga, Tenn. ¹ ---	Tennessee River and tributaries from below Knoxville, Tenn., to and including Decatur, Ala.
Cincinnati, Ohio ¹ ---	Ohio River and southern tributaries from and including the mouth of the Kanawha, to and including Carrollton, Ky.; Little Miami River; Whitewater River.
Columbia, S. C.---	Santee River and tributaries.
Columbus, Ohio.---	The Sandusky River; the northern tributaries of the Ohio River from Dam No. 17 to Dam No. 31.
Concord, N. H.---	Merrimack River and tributaries.
Dallas, Tex. ¹ ---	Trinity River and tributaries above Long Lake, Tex.
Davenport, Iowa ² ---	Mississippi River and tributaries from below Dubuque, Iowa, to and including the mouth of the Iowa, but not including Keithsburg, Ill.
Dayton, Ohio.---	Miami River and tributaries, except the Whitewater.
Denver, Colo.---	Colorado River and tributaries, except the Gila; Arkansas River and tributaries in Colorado; Pecos River and tributaries; Rio Grande and tributaries at and above El Paso, Tex.; Canadian River and tributaries in New Mexico.
Des Moines, Iowa.---	Des Moines River and tributaries above Eldon, Iowa.
Dubuque, Iowa ² ---	Mississippi River and tributaries from below La Crosse, Wis., to and including Dubuque, Iowa, except the upper Wisconsin (see Wausau, Wis., center).
Evansville, Ind. ¹ ---	Ohio River and tributaries from below Hawesville, Ky., to the mouth of, but not including, the Wabash.
Fort Smith, Ark.---	Arkansas River and tributaries (except the Neosho in Kansas, and the Canadian) from the Kansas-Oklahoma line to and including Fort Smith, Ark.
Fort Wayne, Ind.---	Maumee River and tributaries.

Fresno, Calif.-----	San Joaquin River and tributaries above the mouth of the Tuolumne.
Grand Rapids, Mich.---	Grand River and tributaries below Grand Ledge, Mich.
Hannibal, Mo. ² -----	Mississippi River and tributaries (except the Iowa and the Des Moines above Eldon, Iowa) from and including Keithsburg, Ill., to and including Louisiana, Mo.
Harrisburg, Pa.-----	Susquehanna River and tributaries below Binghamton, N. Y.
Hartford, Conn.-----	Connecticut River and tributaries.
Houston, Tex. ¹ -----	Sabine, Neches, and Brazos Rivers; Trinity River at and below Long Lake, Tex.
Indianapolis, Ind.-----	Wabash River and tributaries.
Kansas City, Mo. ¹ -----	Missouri River and eastern tributaries from the mouth of the Platte to and including Lexington, Mo.
Knoxville, Tenn. ¹ -----	Tennessee River and tributaries at and above Knoxville, Tenn.
La Crosse, Wis. ² -----	Mississippi River and tributaries from below St. Paul, Minn., to and including La Crosse, Wis.
Lansing, Mich.-----	Grand River and tributaries at and above Grand Ledge, Mich.; Saginaw River and tributaries.
Little Rock, Ark. ¹ -----	Arkansas River and tributaries below Fort Smith, Ark.; White River and tributaries, except the Black in Missouri; Ouachita River and tributaries in Arkansas.
Louisville, Ky. ¹ -----	Ohio River and tributaries from and including the Kentucky to and including Hawesville, Ky.
Macon, Ga.-----	Altamaha River and tributaries.
Memphis, Tenn. ¹ -----	Mississippi River from below New Madrid, Mo., to the mouth of the White; St. Francis River and tributaries.
Meridian, Miss.-----	Pascagoula, Pearl, and West Pearl Rivers and tributaries.
Minneapolis, Minn. ² ---	Mississippi River and tributaries at and above St. Paul, Minn.
Mobile, Ala. ¹ -----	Tombigbee River and tributaries.
Montgomery, Ala. ¹ -----	Alabama River and tributaries.
Moorhead, Minn.-----	Red River of the North and tributaries below the Canadian line.
Nashville, Tenn. ¹ -----	Cumberland River and tributaries.
New Orleans, La. ¹ -----	Mississippi River below the mouth of the Big Black; Red River below Shreveport, La.; Ouachita and Black Rivers and tributaries in Louisiana; Atchafalaya River.
Oklahoma City, Okla.---	Canadian River and tributaries east of the eastern boundary of New Mexico.
Omaha, Nebr.-----	Missouri River and tributaries from below Sioux City, Iowa, to and including the mouth of the Platte.
Parkersburg, W. Va. ¹ ---	Ohio River and southern tributaries from below Dam No. 13 to and including Point Pleasant, W. Va.
Pensacola, Fla.-----	Escambia and Choctawhatchee Rivers and tributaries.
Philadelphia, Pa.-----	Delaware River and tributaries.
Phoenix, Ariz.-----	Gila River and tributaries.
Pittsburgh, Pa. ¹ -----	Ohio River and tributaries at and above Dam No. 13.
Portland, Oreg. ¹ -----	Columbia River and tributaries.
Raleigh, N. C.-----	The rivers, and their tributaries, that enter the Atlantic Ocean on the North Carolina coast.
Richmond, Va.-----	James River and tributaries.
Sacramento, Calif.-----	Rivers of California, except the San Joaquin above the mouth of the Tuolumne.
St. Louis, Mo. ¹ -----	Mississippi River and its tributaries from Louisiana to Cape Girardeau, Mo., but not including either terminal (see Kansas City and Topeka centers for Missouri and Osage limits); Black River in Missouri.
San Antonio, Tex.-----	Colorado, Guadalupe, Nueces, and San Antonio Rivers and tributaries.
Shreveport, La. ¹ -----	Red River and tributaries at and above Shreveport, La.
Sioux City, Iowa.-----	Missouri River and tributaries from below Bismarck, N. Dak., to and including Sioux City, Iowa.
Topeka, Kans.-----	Kansas River and tributaries; Neosho and Osage Rivers and tributaries in Kansas.
Vicksburg, Miss. ¹ -----	Mississippi River from the mouth of the White to the mouth of the Big Black; Yazoo and Big Black Rivers and tributaries.
Washington, D. C.-----	Potomac River and tributaries.
Wausau, Wis.-----	Wisconsin River and tributaries above and including Wisconsin Rapids, Wis.
Wichita, Kans.-----	Arkansas River and tributaries in Kansas.

River stations, arranged by drainage areas, and miscellaneous information pertaining thereto—Continued

Station	River	Length of record	Elevation of gage zero above mean sea level	Distance of gage above mouth of river	Drainage area above gage	Flood stage	Extreme stages from gage readings			
							Highest	Date	Lowest	Date
MISSISSIPPI SYSTEM—continued										
Ohio Basin		Years	Feet	Miles	Sq. miles	Feet	Feet		Feet	
Johnstown, Pa.	Stony Creek	47		1.2	465	12	21.0	May 31, 1889	0.2	Aug. 21, 1893
Saltsburg, Pa.	Kiskiminitas	17	826.41	27	1,676	12	20.8	Mar. 14, 1907	-1.8	Oct. 5, 1892
Olean, N. Y.	Allegheny	15	1,403.40	259	1,115		15.6	May 2, 1909	.2	Aug. 10, 1909
Warren, Pa.	do.	47	1,171.04	192	3,060	12	15.2	Mar. 27, 1913	-1.1	Sept. 23, 1904
Franklin, Pa.	do.	27	958.3	126	6,010	15	24.0	Feb. 27, 1917	-6	Sept. 3, 1908
Parkers Landing, Pa.	do.	47	846.51	85	7,311	18	25.7	Mar. 26, 1913	-1.3	Sept. 8, 1886
Lock No. 5, Schenley, Pa.	do.	59	734.5	30.6	9,338	24	30.7	Dec. 14, 1927	11.2	Aug. 3, 1936
Lock No. 4, Natrona, Pa.	do.	5	724.5	24.1	11,410	24	28.3	Dec. 14, 1927	8.4	July 1, 1933
Lock No. 3, Springdale, Pa.	do.	27	714.0	16.7	11,505	27	36.5	Mar. 27, 1913	5.0	Sept. 23, 1908
Philippi, W. Va.	Tygart	13	1,276.8	46	620	20	22.0	Oct. 3, 1929	.1	Sept. 29, 1930
Weston, W. Va.	West Fork	29	995.60	69	140	18	17.0	Oct. 3, 1929	-3	Oct. 1, 1930
Rowlesburg, W. Va.	Cheat	47	1,369.7	44	978	12	25.0	July 10, 1888	.7	Dec. 6, 1908
Confluence, Pa.	Youghiogheny	59	1,308.9	68	1,010	10	20.4	Mar. 29, 1924	-8	Sept. 6, 1881
West Newton, Pa.	do.	42	740.2	13	1,505	20	30.6	Feb. 27, 1912	-3	Sept. 14, 1892
Lock No. 15, Hout, W. Va.	Monongahela	28	838.9	124.2	2,430	22	29.4	Jan. 2, 1919	.7	Dec. 6, 1908
Lock No. 10, Morgantown, W. Va.	do.	49	785.6	101.5	2,608	25	37.0	July 10, 1888	-2	Oct. 5, 1873
Lock No. 7, Greensboro, Pa.	do.	44	753.0	84.8	4,574	30	39.5	July 30, 1911	6.2	Sept. 15, 1930
Lock No. 4, Pa.	do.	46	714.5	40.9	5,430	31	45.2	July 10, 1888	6.4	Nov. 18, 1887
McKeesport, Pa.	do.	26	718.2	14.6	7,195	16	16.2	Oct. 3, 1929	.9	Aug. 10, 1930
Sharon, Pa.	Shenango	20	839.82	28.2	609	9	18.6	Mar. 26, 1913	1.7	Aug. 11, 1930
Beaver Falls, Pa.	Beaver	24	731.2	4.0	3,007	11	17.4	Mar. 27, 1913	1.9	Aug. 10, 1913
Walhonding, Ohio	Walhonding	18	811.1	23	1,480	8	16.0	Feb. 26, 1929	-1.0	Dec. 1, 1924
Uhrichsville, Ohio	Stillwater Creek	10		8	367	11	11.0	Jan. 23, 1927	-6	Aug. 21, 1930
Dover, Ohio	Tuscarawas	25		60	1,410	9	16.1	Mar. 28, 1913		
Newcomerstown, Ohio	do.	4	785.0	23	2,430	11	13.5	Feb. 28, 1929	.65	Aug. 11, 1930
Coshocton, Ohio	do.	24	736.60	2	4,840	8	27.5	Mar. 26, 1913	-1.6	Aug. 9, 1931
Lock No. 10, Zanesville, Ohio	Muskingum	41	665.3	75.8	6,474	25	51.8	Mar. 27, 1913	4.3	Oct. 14, 1895
Lock No. 7, McConnellsville, Ohio	do.	19	635.0	48.2	7,410	22	49.1	Mar. 27, 1913	3.4	Oct. 9, 1916
Lock No. 4, Beverly, Ohio	do.	26	602.6	24.7	7,700	25	46.5	Mar. 28, 1913	2.6	Aug. 22, 1910
Lock No. 3, Lowell, Ohio	do.	3	588.1	13.9		25				
Lock No. 1, Marietta, Ohio	do.	19	575.6	2	8,040	28	37.3	Jan. 24, 1927	7.9	Aug. 19, 1930
Glenville, W. Va.	Little Kanawha	31	697.79	103.0	385	23	33.6	Nov. 16, 1926	-9	Nov. 10, 1908
Creston, W. Va.	do.	31	621.91	48.0	1,347	20	32.0	Mar. 14, 1918	-3.0	Nov. 4, 1906
Athens, Ohio	Hocking	16	615.59	31.6	944	17	21.9	Apr. 16, 1922	2.2	Oct. 11, 1930
Camden on Gauley, W. Va.	Gauley	16	2,005.7	71	238	20	21.7	Dec. 15, 1901	-8	Nov. 11, 1915
Ivanhoe, Va.	New	15	1,941.9	194	1,311	15	20.0	Oct. 2, 1929	.0	Aug. 1, 1917
Radford, Va.	do.	36		145	2,761	14	32.3	July 16, 1916	-2.0	Nov. 3, 1904
Glenlyn, Va.	do.	6	1,492.0	95	3,852	11	14.8	Oct. 3, 1929	.1	Sept. 29, 1926
Hinton, W. Va.	do.	45	1,351.64	63	6,288	14	20.2	Sept. 13, 1878	.7	Sept. 27, 1894
Clay, W. Va.	Elk	17	676.60	53.2	1,016	18	32.4	Mar. 14, 1918	.1	Sept. 11, 1925
Kanawha Falls, W. Va.	Kanawha	18	622.88	95.0	8,415	25	31.7	July 17, 1916	-9	Oct. 29, 1921
Charleston, W. Va.	do.	59	558.65	58.0	10,495	30	41.6	Sept. 14, 1878	-1	Sept. 15, 1881
Logan, W. Va.	Guyandot	10	638.39	81.4	859	20	27.0	Jan. 28, 1918	.0	Oct. 10, 1923
Wayne, W. Va.	Twelvepole Creek	7	604.74	28.8	305	25	28.3	June 30, 1928	.3	July 16, 1930
Williamson, W. Va.	Tug Fork	25		57.3	941	38	38.1	Jan. 29, 1918	-8	Oct. 2, 1908
Kermit, W. Va.	do.	12	574.77	35.0	1,268	38	38.8	Jan. 29, 1918	1.4	Oct. 4, 1920
Pikeville, Ky.	Levisa Fork	24	635.5	88.5	1,225	35	49.0	Jan. 28, 1918	1.0	Oct. 23, 1923
Prestonsburg, Ky.	do.	7	588.65	54.9	1,611	40	42.2	Mar. 24, 1929	1.4	July 6, 1930
Lock No. 3, Louisa, Ky.	Big Sandy	43	516.81	26.6	3,821	48.0		Mar. 6, 1899	.7	Nov. 18, 1884
Delaware, Ohio	Olentangy	22	848.58	26.2	415	9	25.5	Mar. 25, 1913		
La Rue, Ohio	Scioto	16	910.19	196.2	255	11	15.0	Mar. 20, 1927	1.9	July 31, 1916
Prospect, Ohio	do.	25	891.72	172.2	554	10	15.0	Mar. 22, 1927	.2	Oct. 2, 1910
Bellpoint, Ohio	do.	18	840.0	156.3	770	9	12.2	Mar. 27, 1916	1.2	Aug. 22, 1921
Columbus, Ohio	do.	34	700.03	131.9	1,610	22.9		Mar. 25, 1913	-8	July 27, 1923
Circleville, Ohio	do.	20	647.03	100.4	3,220	10	24.2	Mar. 26, 1913	-2.2	Aug. 17, 1925
Chillicothe, Ohio	do.	24	594.02	70.4	3,850	16	39.8	Mar. 26, 1913	1.0	Sept. 27, 1916
Kings Mills, Ohio	Little Miami	7	587.10	28.1	793	17	33.7	Mar. 26, 1913	.5	July 3, 1914
Cynthiana, Ky.	South Fork	15		46	641	20	22.6	Dec. 24, 1921	.6	July 26, 1921
Farmers, Ky.	Licking	15		172	782	25	31.1	Feb. 9, 1918	1.2	Aug. 17, 1917
Falmouth, Ky.	do.	45	512.2	51.2	2,267	28	39.1	Dec. 25, 1921	-1	Sept. 6, 1930
Pleasant Hill, Ohio	Stillwater	16	846.55	29.2	502	13	16.4	Feb. 26, 1929	.8	Oct. 4, 1928
Springfield, Ohio	Mad	18	881.95	23.6	485	11	15.1	Feb. 26, 1929	1.6	Aug. 22, 1924
Brookville, Ind.	Whitewater	14	595.7	27	1,180	20	18.9	Apr. 20, 1920	.8	Sept. 18, 1919
Sidney, Ohio	Miami	18	924.74	134.8	543	12	14.2	Mar. 21, 1927	.1	Sept. 1, 1924
Piqua, Ohio	do.	21	844.00	122.1	850	17	29.1	Mar. 25, 1913	1.1	July 31, 1930
Tippecanoe City, Ohio	do.	9	788.77	104.5	1,016		11.8	Mar. 21, 1927	-1.3	Aug. 5, 1930
Dayton, Ohio	do.	39	721.01	84.5	2,510	21	31.7	Mar. 25, 1913	-1	Sept. 5, 1925
Miamisburg, Ohio	do.	9	678.44	68.6	2,720	22	19.0	Feb. 27, 1926	-3	Oct. 17, 1929
Franklin, Ohio	do.	9	658.41	61.3	2,785	16	14.7	Mar. 22, 1927	.2	Sept. 6, 1925
Middletown, Ohio	do.	9	624.65	53.6	3,162	15	19.0	Feb. 27, 1929	.0	Oct. 8, 1924
Hamilton, Ohio	do.	22	560.00	35.3	3,630	17	43.1	Mar. 26, 1913	-1.4	Sept. 10, 1925
Hazard, Ky.	North Fork	7		96.0	442	20	37.0	May 30, 1927	-4	Aug. 1, 1925
Beattyville, Ky.	Kentucky	29	623.35	255.0	1,856	30	40.1	Dec. 22, 1926	-2.6	June 6, 1916
Lock No. 7, Highbridge, Ky.	do.	31	503.66	117.0	5,024	30	34.8	Dec. 26, 1926	4.7	Nov. 24, 1912
Frankfort, Ky.	do.	46	462.17	65.0	5,396	31	38.3	Mar. 28, 1913	3.2	Nov. 1, 1908
Bowling Green, Ky.	Barren	8	408.04	29.5	1,875	20	36.5	Jan. 3, 1919	.0	Oct. 18, 1923
Munfordville, Ky.	Green	16	452.20	223	1,707	28	44.8	Dec. 18, 1915	1.7	Oct. 4, 1928
Lock No. 6, Brownsville, Ky.	do.	15	403.26	180.6	2,751	28	52.8	Jan. 10, 1913	6.1	Sept. 10, 1919
Lock No. 4, Woodbury, Ky.	do.	33	373.80	149.5	5,446	33	54.4	Jan. 11, 1913	5.0	Sept. 17, 1902
Lock No. 2, Rumsey, Ky.	do.	33	343.64	62.8	7,681	34	47.9	Mar. 31, 1904	3.7	July 28, 1902
Anderson, Ind.	West Fork	21	825.0	281	503	12	22.9	Mar. 25, 1913	1.7	Dec. 9, 1917
Noblesville, Ind.	do.	18		257	900	14	18.8	Jan. 31, 1916	3.0	Aug. 29, 1914
Indianapolis, Ind.	do.	21	670.7	225	1,610	18	29.5	Mar. 26, 1913	2.2	Aug. 7, 1918
Elliston, Ind.	do.	24	472.94	120	4,066	19	31.3	Mar. 27, 1913	5.5	Jan. 11, 1909
Edwardsport, Ind.	do.	9		30	4,772	12	20.3	Jan. 14, 1930	2.2	Jan. 1, 1931
Seymour, Ind.	East Fork	9	555.54	118	2,140	10	14.5	Jan. 10, 1930	.0	Jan. 23, 1925
Williams, Ind.	do.	11		64	4,672	10	20.6	Jan. 14, 1930	-2.0	Jan. 1, 1931
Shoals, Ind.	do.	24	442.21	45	4,914	20	42.2	Mar. 28, 1913	1.7	Dec. 7, 1914
Decker, Ind.	White	18	387.4	20	10,717	18	29.0	Jan. 17, 1930	-1.5	Feb. 13, 1931
Bluffton, Ind.	Wabash	21		427	490	11	20.0	Mar. 26, 1913	.7	June 23, 1913
Logansport, Ind.	do.	14		341	3,830	15	25.5	Mar. 26, 1913	2.2	Dec. 4, 1914
La Fayette, Ind.	do.	18	504.14	308	7,120	13	24.0	Jan. 16, 1930	.8	Jan. 14, 1931
Covington, Ind.	do.	5	473.97	268	7,760	16	27.7	Jan. 17, 1930	1.2	Oct. 5, 1928
Terre Haute, Ind.	do.	27	445.70	214.4	12,200	14	31.3	Mar. 27, 1913	-2.0	Feb. 6, 1892
Vincennes, Ind.	do.	15	396.43	127.8	14,000	14	25.2	Jan. 17, 1930	-2	Jan. 23, 1931
Mount Carmel, Ill.	do.	43	371.46	94.5	28,590	16	31.0	Mar. 30, 1913	-2	Nov. 7, 1895
New River, Tenn.	New	24	1,096.0	8.2	367	20	41.2	Mar. 23, 1929	-3	Sept. 12, 1925
Rock Island, Tenn.	T									

RIVER GAGE READINGS
MISSISSIPPI SYSTEM—OHIO BASIN—Continued

1931	January	February	March	April	May	June	July	August	September	October	November	December	1931	January	February	March	April	May	June	July	August	September	October	November	December
WABASH RIVER AT BLUFFTON, IND.													WABASH RIVER AT LA FAYETTE, IND.												
Wabash-Ohio [Flood stage, 11 feet]													Wabash-Ohio [Flood stage, 13 feet]												
1	1.2	1.2	1.4	2.4	2.1	1.2	3.6	1.1	1.1	1.6	1.5	2.0	1	1.0	1.6	1.6	4.3	2.6	1.8	3.5	1.2	1.8	2.0	1.6	3.2
2	1.2	1.2	1.4	2.4	2.0	1.2	2.8	1.0	1.5	1.5	1.6	2.0	2	1.1	1.2	1.5	3.8	2.2	1.6	3.1	1.2	1.7	1.9	1.9	3.2
3	1.2	1.2	1.4	3.5	2.0	1.2	2.0	1.1	1.5	1.4	1.5	1.9	3	1.3	1.5	1.4	3.5	2.0	1.8	2.6	1.2	1.6	1.8	1.6	3.1
4	1.1	1.2	1.3	5.9	2.0	1.2	2.0	1.0	1.7	1.3	1.5	2.3	4	1.2	1.3	1.4	3.9	1.9	1.5	2.1	1.0	1.6	1.5	1.7	2.0
5	1.1	1.2	1.3	5.6	1.9	1.2	1.9	1.2	1.7	1.2	1.5	3.8	5	1.2	1.2	1.5	7.9	1.9	1.6	2.1	1.2	2.0	1.5	1.7	3.4
6	1.1	1.2	1.3	4.5	1.9	1.2	1.8	1.1	1.5	1.3	1.4	4.2	6	1.7	1.2	1.4	6.9	1.9	1.6	2.2	1.2	2.0	1.3	1.5	4.5
7	1.1	1.3	1.3	3.0	1.8	1.2	1.9	1.1	1.5	4.2	1.4	3.2	7	1.7	1.2	1.5	5.3	2.3	2.8	1.8	1.2	1.9	1.7	1.5	5.1
8	1.1	1.3	1.3	2.5	1.8	1.3	2.1	1.1	1.5	4.7	1.4	3.0	8	1.2	1.4	1.7	4.3	2.2	3.0	1.7	1.1	1.7	1.5	1.5	4.9
9	1.1	1.3	1.5	2.4	1.7	1.3	1.8	1.1	1.4	4.1	1.4	2.2	9	1.3	1.4	1.5	3.5	2.1	3.6	1.5	1.4	1.5	2.6	1.5	3.9
10	1.1	1.3	1.5	2.5	1.6	1.2	1.6	1.1	1.2	3.5	1.3	2.1	10	1.4	1.4	1.9	3.5	2.1	3.4	1.5	1.6	1.4	2.6	1.5	3.9
11	1.1	1.3	1.5	2.5	1.6	1.2	1.3	1.1	1.2	2.6	1.3	3.5	11	1.2	1.4	1.4	3.1	2.3	2.4	1.4	1.6	1.3	2.0	1.5	3.6
12	1.1	1.3	1.5	2.4	1.6	1.2	1.3	1.1	1.1	2.3	1.4	6.0	12	1.2	1.3	1.4	3.0	2.5	2.3	1.3	1.6	1.3	2.4	1.6	4.5
13	1.1	1.3	1.6	2.5	1.6	1.1	1.2	1.1	1.0	2.0	1.4	6.2	13	1.5	1.9	1.3	3.7	2.6	2.1	1.3	1.6	1.2	2.9	2.1	5.4
14	1.1	1.4	1.6	2.5	1.6	1.0	1.1	1.1	1.0	2.0	1.3	6.7	14	1.5	1.5	1.6	3.4	2.3	2.1	1.3	1.3	1.2	3.4	2.6	9.4
15	1.1	1.4	1.6	2.4	1.6	1.0	1.1	1.2	1.0	2.0	1.4	6.0	15	1.8	1.3	2.0	2.9	2.3	2.0	1.1	1.3	1.9	3.6	2.1	7.9
16	1.1	1.4	1.6	2.2	1.6	1.0	1.1	1.2	1.3	2.1	1.4	4.7	16	1.1	1.5	3.5	3.0	2.2	1.9	1.1	1.3	1.8	3.8	2.2	7.1
17	1.1	1.4	1.6	2.1	1.6	2.4	1.0	1.1	1.1	2.2	1.5	4.3	17	1.1	1.6	4.3	2.5	2.2	1.9	1.2	1.2	6.1	3.4	2.2	6.9
18	1.1	1.4	1.6	1.9	1.5	1.9	1.0	1.1	1.1	2.0	2.1	2.9	18	1.2	2.0	3.9	2.5	1.9	1.8	1.1	1.2	4.5	2.9	2.5	5.0
19	1.1	1.8	1.6	1.9	1.5	1.6	1.1	1.1	1.1	1.7	4.6	2.6	19	1.4	1.8	3.9	2.5	1.6	1.6	1.3	1.1	3.0	2.7	4.7	4.4
20	1.1	1.8	1.6	1.9	1.4	1.5	1.1	1.1	1.2	1.7	4.0	2.4	20	1.7	2.1	3.3	2.5	2.3	1.6	1.3	1.3	2.5	2.6	5.6	4.0
21	1.1	1.8	1.5	1.9	1.4	1.4	1.1	1.1	1.2	1.6	3.5	2.3	21	1.9	2.1	3.1	2.3	2.3	1.6	1.9	1.4	1.9	2.5	7.9	3.8
22	1.1	1.8	1.6	1.9	1.4	1.4	1.8	1.1	1.4	1.5	3.2	8.0	22	1.2	2.1	3.5	2.6	2.3	1.6	2.6	1.2	1.9	2.2	6.4	3.8
23	1.1	1.6	1.6	1.6	1.4	1.6	2.2	1.0	1.3	1.5	3.1	4.5	23	1.2	1.9	3.5	2.2	2.1	2.4	2.3	1.2	1.8	2.2	5.6	5.6
24	1.1	1.6	1.6	1.6	1.4	1.4	2.7	1.0	1.4	1.5	2.2	3.7	24	1.3	2.1	3.5	2.3	1.9	2.2	2.2	1.2	1.6	1.9	4.9	7.5
25	1.1	1.6	1.7	1.6	1.4	1.2	2.1	1.0	1.5	1.4	2.2	2.8	25	1.4	1.7	3.1	2.3	1.7	2.3	3.0	1.1	2.5	2.0	4.4	6.5
26	1.1	1.6	1.7	1.6	1.4	1.1	1.8	1.0	1.4	1.4	2.1	2.8	26	1.7	1.8	2.8	2.5	2.1	3.0	2.4	1.3	2.1	2.0	5.8	5.2
27	1.1	1.4	1.7	2.0	1.4	1.1	1.5	1.0	2.0	1.3	1.9	2.4	27	1.4	1.5	2.6	2.4	1.9	2.7	2.0	1.4	2.1	1.9	3.6	4.7
28	1.2	1.4	3.0	2.3	1.3	1.0	1.5	1.1	2.9	1.4	1.9	2.1	28	1.6	1.3	2.9	2.5	1.5	2.4	1.8	1.8	2.6	1.6	5.4	3.6
29	1.2	4.4	2.1	1.2	1.2	1.3	1.1	2.5	1.4	1.8	2.0	2.0	29	1.6	3.5	2.9	2.9	1.7	2.0	1.6	2.2	2.6	1.6	5.2	4.0
30	1.2	3.8	2.1	1.2	2.1	1.3	1.1	1.9	1.3	1.8	2.0	2.0	30	1.2	5.8	2.9	1.6	2.5	1.4	2.3	2.4	1.6	1.6	3.3	3.5
31	1.2	3.4	1.2	1.2	1.2	1.1	1.1	1.3	1.3	1.3	2.0	2.0	31	1.5	5.8	1.7	1.7	1.7	1.4	1.9	1.5	1.5	3.4	3.4	3.4
Mean	1.1	1.4	1.8	2.5	1.6	1.3	1.7	1.1	1.4	2.0	2.0	3.3	Mean	1.6	2.6	3.4	2.1	2.2	1.8	1.4	2.1	2.3	3.0	4.9	4.9
WABASH RIVER AT LOGANSFORT, IND.													WABASH RIVER AT COVINGTON, IND.												
Wabash-Ohio [Flood stage, 15 feet]													Wabash-Ohio [Flood stage, 16 feet]												
1	3.2	3.2	3.3	4.6	3.8	3.1						3.7	1	3.5	3.2	3.3	7.6	4.9	3.6	4.5	3.1	3.8	4.5	3.5	5.5
2	3.2	3.2	3.0	4.3	3.6	3.1						3.8	2	3.5	3.2	3.3	6.5	4.6	3.6	4.5	3.1	3.8	4.5	3.5	5.5
3	3.0	3.1	3.2	4.3	3.6	3.2						3.7	3	3.7	3.1	3.3	6.2	4.2	3.6	4.5	2.8	3.5	3.8	3.7	5.4
4	3.0	3.1	3.2	7.1	3.5	3.2						3.7	4	3.6	3.1	3.3	6.0	4.1	3.7	5.8	2.8	3.5	3.7	3.5	5.4
5	3.0	3.1	3.2	7.2	3.4	3.0						4.4	5	3.5	3.1	3.3	7.2	3.9	3.6	5.2	2.8	3.4	3.5	3.6	5.6
6	3.1	3.1	3.2	6.0	3.4	3.2						5.2	6	3.4	3.1	3.3	10.0	3.8	3.6	4.5	2.7	3.8	3.2	3.6	6.0
7	3.1	3.1	3.2	5.0	3.4	3.2						5.1	7	3.5	3.1	3.3	9.0	4.0	4.0	4.3	2.7	3.8	3.7	3.3	7.1
8	3.1	3.1	3.2	4.6	3.4	3.9						4.5	8	3.6	3.1	3.3	7.6	4.1	5.1	3.9	2.7	3.8	3.7	3.3	7.7
9	3.1	3.1	3.2	4.4	3.4	3.7	3.8					4.1	9	3.4	3.1	3.3	6.5	4.1	5.6	3.7	2.7	3.6	3.7	3.3	7.0
10	2.9	3.3	3.3	4.1	3.4	3.5						4.0	10	3.1	3.2	3.3	5.9	4.1	6.0	3.5	3.5	3.3	3.6	3.4	6.3
11	2.9	3.2	3.3	4.3	3.4	3.3						4.0	11	3.1	3.3	3.5	5.6	4.2	5.5	3.3	3.4	3.1	3.2	3.2	6.0
12	2.9	3.2	3.3	4.7	3.4	3.3						7.0	12	3.0	3.2	3.4	5.4	4.3	4.8	3.2	3.4	2.9	3.2	3.3	6.5
13	2.9	3.3	3.3	4.5	3.4	3.2						7.8	13	3.1	3.2	3.2	5.4	4.4	4.5	3.2	3.3	2.8	3.1	3.3	6.0
14	2.9	3.3	3.6	4.4	3.4	3.1						7.3	14	3.0	3.4	3.2	5.8	4.5	4.1	3.2	3.3	2.7	3.1	3.3	6.0
15	2.9	3.2	4.1	4.2	3.4	3.1						6.7	15	2.7	3.3	3.3	5.5	4.3	4.0	3.0	3.0	2.8	3.0	3.9	12.3
16	2.9	3.4	5.1	3.7	3.4	3.1	3.1					6.1	16	2.9	3.4	3.7	5.1	4.2	3.9	2.8	2.9	3.6	3.2	4.1	10.7
17	2.9	3.5	5.1	3.7	3.3	3.0						5.5	17	3.2	3.4	5.5	5.1	4.0	3.8	2.8	2.8	3.6	3.2	4.1	9.7
18	2.9	3.5	4.6	3.7	3.3	3.2						4.7	18	3.2	3.5	6.2	4.6	4.0	3.7	2.7	2.7	7.8	5.9	4.3	8.4
19	2.9	3.5	4.3	3.7	3.3	3.1						4.4	19	3.2	3.7	6.0	4.6	3.9	3.7	2.7	2.7	6.5	5.5	5.9	7.5
20	2.9	3.5	4.2	3.6	3.4	3.1	3.3					4.3	20	3.2	3.6	5.7	4.6	3.8	3.6	4.0	3.5	5.2	5.0	7.2	6.8
21	3.5	3.6	4.3	3.6	3.4	3.1					</														

MISSISSIPPI SYSTEM—OHIO BASIN—Continued

1931	January	February	March	April	May	June	July	August	September	October	November	December	1931	January	February	March	April	May	June	July	August	September	October	November	December
WABASH RIVER AT TERRE HAUTE, IND.													WABASH RIVER AT MOUNT CARMEL, ILL.												
Wabash-Ohio													Wabash-Ohio												
[Flood stage, 14 feet]													[Flood stage, 16 feet]												
1	0.0	0.4	0.6	4.4	1.6	0.8	1.4	0.4	1.3	1.9	0.9	4.0	1	0.7	0.8	1.3	5.8	4.7	1.7	2.3	1.7	2.4	3.0	2.5	7.4
2	0.0	0.3	0.6	4.0	1.8	0.8	1.0	0.4	1.1	1.7	0.6	3.8	2	0.7	0.8	1.2	6.1	4.4	1.6	2.2	1.5	4.0	3.0	2.7	7.5
3	0.0	0.4	0.5	3.3	1.8	0.8	1.9	0.0	1.2	1.2	0.8	3.5	3	0.7	0.8	1.0	6.1	4.0	1.5	2.0	1.3	6.7	2.7	2.6	7.2
4	0.1	0.4	0.5	2.8	1.4	0.8	2.6	0.3	0.8	1.1	0.6	3.7	4	0.7	0.8	1.0	5.8	3.6	1.5	1.8	1.2	7.9	2.4	2.3	6.7
5	0.2	0.3	0.5	2.7	1.4	0.7	2.8	0.2	1.0	1.0	0.6	4.3	5	0.7	0.7	1.0	6.6	3.3	1.5	2.9	1.1	7.5	2.2	2.1	6.4
6	0.3	0.3	0.5	4.0	1.4	1.7	2.0	0.0	0.9	0.8	0.6	4.4	6	0.7	0.7	1.0	7.1	2.9	1.5	3.6	1.1	6.0	2.0	2.0	6.8
7	0.4	0.3	0.5	5.9	1.0	1.6	2.0	0.1	0.8	0.0	0.5	4.4	7	0.7	0.7	1.3	7.5	2.7	1.4	4.4	1.1	4.8	1.9	1.9	6.7
8	0.4	0.3	0.6	5.2	1.0	1.4	1.0	0.0	0.8	1.5	0.5	4.9	8	0.7	0.8	2.5	8.2	2.6	1.4	4.9	1.2	4.0	1.8	1.7	6.6
9	0.4	0.3	0.0	4.1	1.3	2.1	1.2	0.0	0.8	1.4	0.5	5.1	9	0.7	0.8	4.7	8.5	2.6	1.3	4.6	1.1	3.3	2.3	1.7	6.5
10	0.4	0.3	0.6	3.4	1.6	2.7	0.9	0.0	0.6	1.4	0.5	4.7	10	0.7	0.8	5.8	8.0	2.6	2.0	3.8	1.1	2.8	3.7	1.7	6.5
11	0.4	0.6	0.8	2.8	1.8	2.8	0.7	2.4	0.5	1.5	0.5	5.7	11	0.8	0.8	5.9	7.3	2.6	1.9	3.5	1.0	2.3	3.5	1.7	6.6
12	0.4	0.6	0.6	2.6	2.0	2.4	0.5	1.8	0.4	2.2	0.3	11.0	12	0.8	0.8	5.4	6.5	2.6	1.7	2.5	0.8	2.0	3.5	1.7	8.7
13	0.4	0.5	0.6	2.2	2.0	1.8	0.4	1.4	0.2	3.0	0.3	9.3	13	0.8	0.8	4.7	5.7	2.6	1.5	2.1	1.5	1.8	3.5	2.0	11.5
14	0.2	0.5	0.6	2.2	2.0	1.6	0.4	1.0	0.1	0.2	0.7	9.6	14	0.8	1.1	4.2	4.9	2.6	2.8	1.8	1.8	1.6	3.6	2.1	14.0
15	0.0	0.5	0.6	2.4	1.8	1.8	0.4	0.9	2.9	6.2	1.1	10.7	15	0.8	1.1	3.8	4.3	2.8	3.0	1.7	1.6	1.4	4.8	2.3	14.8
16	0.0	0.4	0.6	2.4	1.8	1.5	0.4	0.7	10.1	5.1	1.3	9.8	16	0.8	1.0	3.4	4.0	2.7	2.4	1.5	1.5	1.3	6.2	2.7	15.4
17	0.1	0.6	1.0	1.9	1.6	1.2	0.1	0.3	7.0	4.4	1.3	8.7	17	0.7	1.0	3.0	4.0	2.6	2.0	1.3	1.4	4.7	6.5	2.9	15.9
18	0.6	2.2	2.0	1.4	1.0	0.1	0.2	6.5	4.1	1.9	7.6	18	0.7	1.4	2.8	3.8	2.6	1.9	1.2	1.2	7.3	6.5	3.2	15.9	
19	0.3	0.7	2.7	1.6	1.5	0.8	0.0	0.2	6.4	3.4	3.3	6.3	19	0.7	1.4	2.7	2.6	2.4	2.1	1.0	1.1	8.2	6.3	4.2	15.6
20	0.3	0.7	2.6	1.6	1.2	0.7	0.0	0.4	5.4	3.1	4.0	5.4	20	0.7	1.6	3.0	3.5	2.3	2.2	0.9	1.2	8.2	5.6	6.6	15.0
21	0.3	0.7	2.4	1.5	1.1	0.7	0.0	0.3	3.8	2.4	9.9	4.9	21	0.7	1.3	3.3	3.2	2.3	1.9	1.4	1.2	7.6	4.7	9.4	14.0
22	0.6	2.1	1.4	1.5	0.5	1.6	0.3	2.7	2.1	10.7	4.6	22	0.7	1.3	3.2	3.1	2.4	1.6	2.3	1.4	6.4	4.0	11.6	11.8	
23	0.2	0.6	1.8	1.8	2.0	0.6	2.7	0.3	2.0	2.1	9.5	5.6	23	0.7	1.2	3.0	3.1	2.5	1.4	3.6	1.4	5.1	3.6	12.5	10.0
24	0.2	0.8	2.2	2.0	1.8	2.2	2.5	0.1	1.4	1.6	8.3	5.6	24	0.7	1.3	2.8	3.1	2.6	1.4	3.2	1.3	4.0	3.0	12.4	9.4
25	0.2	0.7	2.4	1.8	1.7	1.4	1.7	0.2	1.9	1.4	7.3	5.9	25	0.6	1.2	2.7	3.1	2.8	1.2	3.1	1.2	3.2	2.8	11.8	9.8
26	0.5	0.7	2.2	1.8	1.5	1.4	1.5	1.0	1.4	1.0	6.0	7.4	26	0.6	1.3	2.7	3.7	2.6	2.1	3.0	1.1	2.9	2.3	10.6	10.4
27	0.5	0.8	2.2	1.7	1.4	1.5	1.5	1.3	1.3	1.2	4.7	5.3	27	0.6	1.1	2.7	4.2	2.6	2.3	2.9	1.6	2.8	2.3	9.5	10.9
28	0.5	0.6	2.2	1.7	1.6	1.8	1.5	1.3	1.3	1.2	4.7	5.3	28	0.9	1.3	2.7	4.5	2.5	2.5	2.9	1.9	2.6	2.3	4.5	10.8
29	0.4	0.7	1.7	1.6	1.1	1.8	1.0	0.8	1.6	0.8	4.7	4.8	29	0.9	0.9	3.0	4.6	2.1	2.4	2.9	2.1	2.6	2.2	7.9	10.0
30	0.3	0.7	2.1	1.6	1.0	1.7	0.8	1.4	1.9	0.8	4.1	4.2	30	0.8	0.8	4.4	4.8	2.1	2.4	2.6	2.2	2.6	2.2	7.5	9.9
31	0.4	0.7	3.0	0.8	0.7	1.2	1.2	1.2	0.9	0.9	4.8	4.8	31	0.8	0.8	5.2	1.9	1.9	2.4	2.4	2.4	2.4	2.2	7.5	11.0
Mean	.2	.5	1.4	2.6	1.5	1.4	1.2	.6	2.3	2.2	3.0	6.0	Mean	.7	1.0	3.1	5.2	2.8	1.9	2.6	1.4	4.3	3.4	5.1	10.3
WABASH RIVER AT VINCENNES, IND.													NEW RIVER AT NEW RIVER, TENN.												
Wabash-Ohio													New-South Fork-Cumberland-Ohio												
[Flood stage, 14 feet]													[Flood stage, 20 feet]												
1	0.0	0.1	0.5	1.8	1.3	0.7	1.2	0.6	1.2	1.6	1.1	4.6	1	2.3	1.9	3.2	4.1	3.3	2.4	1.8	2.1	2.4	1.6	2.1	3.3
2	0.0	0.1	0.5	2.3	1.4	0.6	1.1	0.4	3.0	1.7	1.0	4.6	2	2.3	1.9	3.0	3.9	3.1	2.4	1.8	2.1	2.4	1.6	2.0	3.1
3	0.1	0.1	0.3	4.1	1.4	0.6	1.0	0.3	3.0	1.7	0.9	4.0	3	2.2	1.9	2.9	3.7	3.0	2.3	1.8	2.0	2.3	1.6	2.0	3.0
4	0.0	0.1	0.3	2.8	1.4	0.6	1.6	0.8	3.1	1.5	0.9	3.7	4	2.2	1.9	2.9	3.6	2.9	2.3	1.8	2.0	2.3	1.6	2.0	4.0
5	0.0	0.1	0.3	2.4	1.2	0.6	2.8	0.4	2.0	1.4	0.9	3.7	5	2.2	1.8	2.8	3.4	2.8	2.2	1.8	2.0	2.2	1.5	1.9	3.4
6	0.0	0.1	0.2	2.2	1.1	0.7	2.6	0.1	1.4	1.1	0.9	4.6	6	2.2	1.8	2.8	3.3	2.7	2.2	1.8	2.0	2.2	1.5	1.9	3.1
7	0.0	0.0	0.4	2.2	1.0	1.3	2.2	0.2	1.1	1.0	0.8	4.4	7	3.3	1.8	2.8	3.3	2.6	2.1	1.7	2.5	2.2	1.5	1.9	2.9
8	0.2	0.1	1.1	3.3	1.0	1.4	1.9	0.0	0.9	1.3	0.8	4.3	8	3.1	1.8	3.3	3.2	2.5	2.1	2.3	2.7	2.1	1.5	1.9	2.7
9	0.2	0.1	1.7	4.0	1.1	1.2	1.4	0.0	0.7	2.7	0.8	4.3	9	2.9	2.1	3.6	3.1	2.4	2.1	2.2	2.5	2.1	1.5	1.9	3.0
10	0.2	0.2	1.7	3.5	1.2	1.4	1.2	0.0	0.7	2.8	0.7	4.5	10	2.8	3.2	3.4	3.0	2.3	2.1	2.1	2.4	2.1	1.5	1.9	4.1
11	0.2	0.1	0.9	2.9	1.2	1.7	0.9	0.0	0.7	1.9	0.8	4.8	11	2.8	3.0	3.1	6.0	2.3	2.0	2.3	2.3	2.1	1.5	1.8	2.6
12	0.1	0.1	0.8	2.4	1.4	2.0	0.6	0.1	0.6	1.9	0.8	6.1	12	2.7	2.9	3.0	4.3	2.2	2.0	2.2	2.2	2.0	1.4	1.8	2.1
13	0.1	0.1	0.7	2.2	1.7	2.1	0.5	1.6	0.4	2.1	0.9	10.5	13	2.6	2.8	2.9	3.9	2.2	2.0	2.1	4.4	2.0	1.4	1.8	2.1
14	0.1	0.3	0.6	2.0	1.7	1.8	0.4	1.4	0.2	3.3	1.2	10.1	14	2.5	7.0	2.8	3.7	2.2	2.0	3.1	3.3	2.0	1.4	1.8	10.0
15	0.1	0.2	0.6	1.9	1.7	1.5	0.3	1.2	0.1	5.2	1.1	9.4	15	2.4	4.9	2.8	3.5	2.1	1.9	2.1	2.9	1.9	1.4	1.8	6.1
16	0.1	0.2	0.5	2.1	1.5	1.4	0.3	0.9	1.1	6.1	1.0	9.5	16	2.3	3.6	2.7	3.4	2.1	1.9	2.0	2.8	1.9	1.4	1.8	5.4
17	0.0	0.3	0.5	2.1	1.6	1.3	0.2	0.6	0.7	5.4	1.1	9.4	17	2.3	3.5	2.7	3.3	2.1	1.8	2.0	2.7	1.9	1.4	1.8	4.2
18	0.0	0.4	0.5	2.0	1.5	1.0	0.1	0.5	7.0	4.8	1.7	8.7	18	2.3	4.6	2.7	3.1	2.1	1.8	2.0	2.6	1.8	1.4	1.5	3.5
19	0.1	0.4	0.7	1.8	1.3	0.9	0.1	0.4	5.9	4.3	2.0	7.6	19	2.2	4.1	2.7	3.0	2.0	1.8	2.0	2.5	1.8	1.3	1.8	3.2
20	0.1	0.4	1.8	1.6	1.3	0.8	0.0	0.7	5.4	3.7	3.6	6.2	20	2.2	3.9	2.6	2.9	2.0	1.8	2.0	2.4	1.8	1.3	1.9	3.2
21	0.0	0.4	2.1	1.6	1.3	0.7	0.3	0.6	4.8	3.0	6.6	5.5	21	2.2	3.7	2.6	2.8	2.0	1.8	2.6	4.0	1.8	1.3		

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Station	River	Miscellaneous data	Gage readings	Station	River	Miscellaneous data	Gage readings
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Three Rivers, Tex.	Nueces	9	144	Waterloo, Oreg.	South Santiam	9	155
Tiffin, Ohio	Sandusky	3	17	Wausau, Wis.	Wisconsin	5	52
Tipppecanoe City, Ohio	Miami	6	88	Waverly, Mo.	Missouri	5	71
Tomahawk, Wis.	Spirit	6	61	Wayne, W. Va.	Twelvepole Creek	6	82
Topeka, Kans.	Kansas	5	66	Webbers Falls, Okla.	Arkansas	8	125
Topock, Ariz.	Colorado	9	148	Weiser, Idaho	Snake	9	163
Towanda, Pa.	Susquehanna	3	25	Weldon, N. C.	Roanoke	4	29
Tracy, Iowa	Des Moines	5	54	Wenatchee, Wash.	Columbia	9	158
Trenton, Mo.	Thompson Fork	5	60	West Newton, Pa.	Youghiogheny	6	74
Trenton, N. J.	Delaware	3	22	Weston, W. Va.	Monongahela-West Fork	6	75
Tribes Hill, N. Y.	Mohawk	3	20	West Point, Ga.	Chatahoochee	4	40
Trinidad, Tex.	Trinity	8	140	Wetumpka, Ala.	Coosa	4	45
Troy, N. Y.	Hudson	3	124	Whitcliffe, Ark.	Little	8	127
Tulsa, Okla.	Arkansas	8	124	White River Junction, Vt.	Connecticut	3	18
Tuscaloosa, Ala.	Black Warrior	4	47	Wichita, Kans.	Arkansas	8	124
Tuscumbia, Mo.	Osage	6	68	Wickenburg, Ariz.	Hassayampa	9	103
Uhrichsville, Ohio	Stillwater Creek	6	77	Widows Bar Lock, Ala.	Tennessee	3	25
Umatilla, Oreg.	Columbia	9	158	Wilkes-Barre, Pa.	Susquehanna	6	93
Union, Mo.	Bourbeuse	5	56	Williams, Ind.	White-East Fork	7	96
Upper Sandusky, Ohio	Sandusky	3	141	Williamsburg, Va.	Cumberland	7	82
Utica, N. Y.	Mohawk	9	57	Williamson, W. Va.	Tug Fork	3	24
Valley Junction, Tex.	Brazos	9	141	Williamsport, Pa.	Susquehanna-West Branch	3	24
Valley Park, Mo.	Meramec	6	68	Williamston, Mich.	Red Cedar	3	29
Vancouver, Wash.	Columbia	9	158	Williamston, N. C.	Roanoke	4	29
Van Meter, Iowa	Raccoon	5	53	Williston, N. Dak.	Missouri	5	58
Vassar, Mich.	Cass	3	134	Winona, Minn.	Mississippi	5	52
Victoria, Tex.	Mississippi	9	144	Wisconsin Rapids, Wis.	Wisconsin	5	52
Vincennes, Ind.	Guadalupe	6	95	Wolf Point, Mont.	Missouri	5	91
Waco, Tex.	Wabash	9	141	Woodbury, Ky.	Green	6	18
Wahpeton, N. Dak.	Brasos	3	141	Woodsville, N. H.	Connecticut	3	18
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Wapello, Iowa	Kansas	5	53	Yancopin, Ark.	Arkansas	8	126
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UNITED STATES DEPARTMENT OF AGRICULTURE
WEATHER BUREAU, CHARLES F. MARVIN, Chief

DAILY RIVER STAGES

AT RIVER GAGE STATIONS ON THE PRINCIPAL RIVERS OF THE UNITED STATES

REFERENCE
DO NOT CIRCULATE
DO NOT CIRCULATE

VOLUME XXX
1932

Community Affairs File

COMPILED BY MONTROSE W. HAYES
PRINCIPAL METEOROLOGIST



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INTRODUCTION

This volume, containing the daily river stages for 1932, is the thirtieth of a series of Daily River Stages on the Principal Rivers of the United States, the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

- Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.
- II. Stages of the Mississippi River and of its Principal Tributaries, except the Ohio River, 1860 to 1889.
- III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.

DAILY STAGES AT RIVER GAGE STATIONS ON THE PRINCIPAL RIVERS OF THE UNITED STATES

Volume IV. 1890 to 1892.	Volume XI. 1911 and 1912.	Volume XVIII. 1920.	Volume XXIV. 1926.
V. 1893 to 1895.	XII. 1913 and 1914.	XIX. 1921.	XXV. 1927.
VI. 1896 to 1899.	XIII. 1915.	XX. 1922.	XXVI. 1928.
VII. 1900 to 1904.	XIV. 1916.	XXI. 1923.	XXVII. 1929.
VIII. 1905 and 1906.	XV. 1917.	XXII. 1924.	XXVIII. 1930.
IX. 1907 and 1908.	XVI. 1918.	XXIII. 1925.	XXIX. 1931.
X. 1909 and 1910.	XVII. 1919.		

Volumes XVI to XXX can be bought from the Superintendent of Documents, Washington, D.C.; volumes I to XV are out of print and cannot be supplied.

The river stages are the vertical distances, in feet and tenths, of the water surface above or below the zero of the gage. The zero has, as a rule, been set at or near the lowest known water.

Gage readings are usually made at 8 a.m., seventy-fifth meridian time, east of the Continental Divide, and at 7 a.m., local time, west of the divide.

Extreme stages for a month, not observed at the regular time for reading the gage, are printed as a note at the foot of the table or page. This practice was begun in 1907.

In some cases the zero planes of gages have been changed, either through accident or through necessary removals. The stations at which changes have occurred are given in a table headed "Corrigenda", and the corrections required to reduce previous readings to the zero now in use are also given in the table if they have not been previously published.

The country is divided into districts, and each district has a designated center at which the administrative and forecasting work is carried on. The following table shows the centers, and their districts. Superior figure ⁽¹⁾ opposite a center indicates that stage forecasts are made daily throughout the year, and ⁽²⁾ indicates that stage forecasts are made daily during seasons of navigation and in times of flood. At those centers not bearing a reference forecasts are made only during times of flood.

ADMINISTRATIVE AND FORECASTING CENTERS AND THEIR DISTRICTS

Albany, N.Y.-----	Hudson River and tributaries.
Atlanta, Ga.-----	Apalachicola River and tributaries.
Augusta, Ga.-----	Savannah and Ogeechee Rivers and tributaries.
Binghamton, N.Y.-----	Susquehanna River and tributaries at and above Binghamton, N.Y.
Bismarck, N.Dak.-----	Missouri River and tributaries at and above Bismarck, N.Dak.
Brownsville, Tex.-----	Rio Grande and Texas tributaries (except the Pecos) below El Paso, Tex.
Cairo, Ill. ¹ -----	Ohio River below the mouth of the Wabash; Mississippi River from and including Cape Girardeau, Mo., to and including New Madrid, Mo.; Tennessee River and tributaries below Decatur, Ala.
Charleston, S.C.-----	Rivers of northeastern South Carolina.
Chattanooga, Tenn. ¹ ---	Tennessee River and tributaries from below Knoxville, Tenn., to and including Decatur, Ala.
Cincinnati, Ohio ¹ ---	Ohio River and southern tributaries from and including the mouth of the Kanawha, to and including Carrollton, Ky.; Little Miami River; Whitewater River.
Columbia, S.C.-----	Santee River and tributaries.
Columbus, Ohio.-----	The Sandusky River; the northern tributaries of the Ohio River from Dam No. 17 to Dam No. 31.
Concord, N.H.-----	Merrimack River and tributaries.
Dallas, Tex. ¹ -----	Trinity River and tributaries above Long Lake, Tex.
Davenport, Iowa ² ---	Mississippi River and tributaries from below Dubuque, Iowa, to and including the mouth of the Iowa, but not including Keithsburg, Ill.
Dayton, Ohio.-----	Miami River and tributaries, except the Whitewater.
Denver, Colo.-----	Colorado River and tributaries, except the Gila; Arkansas River and tributaries in Colorado; Pecos River and tributaries; Rio Grande and tributaries at and above El Paso, Tex.; Canadian River and tributaries in New Mexico.
Des Moines, Iowa.-----	Des Moines River and tributaries above Eldon, Iowa.
Dubuque, Iowa ² ---	Mississippi River and tributaries from below La Crosse, Wis., to and including Dubuque, Iowa, except the upper Wisconsin (see Wausau, Wis., center).
Evansville, Ind. ¹ -----	Ohio River and tributaries from below Hawesville, Ky., to the mouth of, but not including, the Wabash.
Fort Smith, Ark.-----	Arkansas River and tributaries (except the Neosho in Kansas, and the Canadian) from the Kansas-Oklahoma line to and including Fort Smith, Ark.
Fort Wayne, Ind.-----	Maumee River and tributaries.
Fresno, Calif.-----	San Joaquin River and tributaries above the mouth of the Tuolumne.
Grand Rapids, Mich.---	Grand River and tributaries below Grand Ledge, Mich.
Hannibal, Mo. ² -----	Mississippi River and tributaries (except the Iowa and the Des Moines above Eldon, Iowa) from and including Keithsburg, Ill., to and including Louisiana, Mo.

Harrisburg, Pa.	Susquehanna River and tributaries below Binghamton, N.Y.
Hartford, Conn.	Connecticut River and tributaries.
Houston, Tex. ¹	Sabine, Neches, and Brazos Rivers; Trinity River at and below Long Lake, Tex.
Indianapolis, Ind.	Wabash River and tributaries.
Kansas City, Mo. ¹	Missouri River and eastern tributaries from the mouth of the Platte to and including Lexington, Mo.
Knoxville, Tenn. ¹	Tennessee River and tributaries at and above Knoxville, Tenn.
La Crosse, Wis. ²	Mississippi River and tributaries from below St. Paul, Minn., to and including La Crosse, Wis.
Lansing, Mich.	Grand River and tributaries at and above Grand Ledge, Mich.; Saginaw River and tributaries.
Little Rock, Ark. ¹	Arkansas River and tributaries below Fort Smith, Ark.; White River and tributaries, except the Black in Missouri; Ouachita River and tributaries in Arkansas.
Louisville, Ky. ¹	Ohio River and tributaries from and including the Kentucky to and including Hawesville, Ky.
Macon, Ga.	Altamaha River and tributaries.
Memphis, Tenn. ¹	Mississippi River from below New Madrid, Mo., to the mouth of the White; St. Francis River and tributaries.
Meridian, Miss.	Pascagoula, Pearl, and West Pearl Rivers and tributaries.
Minneapolis, Minn. ²	Mississippi River and tributaries at and above St. Paul, Minn.
Mobile, Ala. ¹	Tombigbee River and tributaries.
Montgomery, Ala. ¹	Alabama River and tributaries.
Moorhead, Minn.	Red River of the North and tributaries below the Canadian line.
Nashville, Tenn. ¹	Cumberland River and tributaries.
New Orleans, La. ¹	Mississippi River below the mouth of the Big Black; Red River below Shreveport, La.; Ouachita and Black Rivers and tributaries in Louisiana; Atchafalaya River.
Oklahoma City, Okla.	Canadian River and tributaries east of the eastern boundary of New Mexico.
Omaha, Nebr.	Missouri River and tributaries from below Sioux City, Iowa, to and including the mouth of the Platte.
Parkersburg, W.Va. ¹	Ohio River and southern tributaries from below Dam No. 13 to and including Point Pleasant, W.Va.
Pensacola, Fla.	Escambia and Choctawhatchee Rivers and tributaries.
Philadelphia, Pa.	Delaware River and tributaries.
Phoenix, Ariz.	Gila River and tributaries.
Pittsburgh, Pa. ¹	Ohio River and tributaries at and above Dam No. 13.
Portland, Oreg. ¹	Columbia River and tributaries.
Raleigh, N.C.	The rivers, and their tributaries, that enter the Atlantic Ocean on the North Carolina coast.
Richmond, Va.	James River and tributaries.
Sacramento, Calif.	Rivers of California, except the San Joaquin above the mouth of the Tuolumne.
St. Louis, Mo. ¹	Mississippi River and its tributaries from Louisiana to Cape Girardeau, Mo., but not including either terminal (see Kansas City and Topeka centers for Missouri and Osage limits); Black River in Missouri.
San Antonio, Tex.	Colorado, Guadalupe, Nueces, and San Antonio Rivers and tributaries.
Shreveport, La. ¹	Red River and tributaries at and above Shreveport, La.
Sioux City, Iowa.	Missouri River and tributaries from below Bismarck, N.Dak., to and including Sioux City, Iowa.
Topeka, Kans.	Kansas River and tributaries; Neosho and Osage Rivers and tributaries in Kansas.
Vicksburg, Miss. ¹	Mississippi River from the mouth of the White to the mouth of the Big Black; Yazoo and Big Black Rivers and tributaries.
Washington, D.C.	Potomac River and tributaries.
Wausau, Wis.	Wisconsin River and tributaries above and including Wisconsin Rapids, Wis.
Wichita, Kans.	Arkansas River and tributaries in Kansas.

ADMINISTRATIVE AND FORECASTING CENTERS AND THEIR DISTRICTS

Albany, N.Y.	Hudson River and tributaries.
Albany, Ga.	Apalachicola River and tributaries.
Albany, N.Y.	Savannah and Ogeechee Rivers and tributaries.
Birmingham, N.Y.	Schenectady River and tributaries at and above Binghamton, N.Y.
Bismarck, N.Dak.	Missouri River and tributaries at and above Bismarck, N.Dak.
Brownsville, Tex.	Rio Grande and Texas tributaries (except the Pecos) below El Paso, Tex.
Carls, Ill.	Ohio River below the mouth of the Washita; Mississippi River from and including Cape Girardeau, Mo., to and including New Madrid, Mo.; Tennessee River and tributaries below Decatur, Ala.
Charleston, S.C.	River of northeastern South Carolina.
Chattanooga, Tenn.	Tennessee River and tributaries from below Knoxville, Tenn., to and including Decatur, Ala.
Cincinnati, Ohio.	Ohio River and southern tributaries from and including the mouth of the Kanawha, to and including Carrollton, Ky.; Little Miami River; Whitewater River.
Columbia, S.C.	Santee River and tributaries.
Columbus, Ohio.	The Sandusky River; the northern tributaries of the Ohio River from Dam No. 17 to Dam No. 31.
Corvallis, Ore.	Metuck River and tributaries.
Dallas, Tex.	Trinity River and tributaries above Long Lake, Tex.
Dayton, Ohio.	Mississippi River and tributaries from below Dubuque, Iowa, to and including the mouth of the Iowa, but not including Keokuk, Ill.
Denver, Colo.	Minnehaha River and tributaries, except the White.
Des Moines, Iowa.	Colorado River and tributaries, except the Gila; Arkansas River and tributaries in Colorado; Pecos River and tributaries Rio Grande and tributaries at and above El Paso, Tex.; Canadian River and tributaries in New Mexico.
Dubuque, Iowa.	Des Moines River and tributaries above Elkhart, Iowa.
Dubuque, Iowa.	Mississippi River and tributaries from below La Crosse, Wis., to and including Dubuque, Iowa, except the upper Wisconsin (see Wausau, Wis. center).
Hawesville, Ky.	Ohio River and tributaries from below Hawesville, Ky., to the mouth of, but not including, the Washita.
Fort Smith, Ark.	Arkansas River and tributaries (except the Neosho in Kansas and the Canadian) from the Kansas-Oklahoma line to and including Fort Smith, Ark.
Fort Wayne, Ind.	Maumee River and tributaries.
Grand Rapids, Mich.	San Joaquin River and tributaries above (the mouth of the Tuolumne).
Hannibal, Mo.	Grand River and tributaries below Grand Ledge, Mich.
Hannibal, Mo.	Mississippi River and tributaries (except the Iowa and the Des Moines above Idaho, Iowa) from and including Keokuk, Ill., to and including Louisiana, Mo.

River stations, arranged by drainage areas, and miscellaneous information pertaining thereto—Continued

Station	River	Length of record	Elevation of gage zero above mean sea level	Distance of gage above mouth of river	Drainage area above gage	Flood stage	Extreme stages from gage readings			
							Highest	Date	Lowest	Date
MISSISSIPPI SYSTEM—continued										
Ohio Basin										
Johnstown, Pa.	Stony Creek	48		1.2	480	15	21.0	May 31, 1899	0.2	Aug. 21, 1893
Saltsburg, Pa.	Kiskiminitas	18	826.41	27	1,701	8	20.8	Mar. 14, 1907	-1.8	Oct. 5, 1892
Olean, N. Y.	Allegheny	16	1,403.40	259	1,137	8	15.6	May 2, 1909	-1.1	Sept. 16, 1932
Warren, Pa.	do	48	1,171.04	192	3,134	8	15.2	Mar. 27, 1913	-1.1	Sept. 23, 1904
Franklin, Pa.	do	28	958.3	126	5,952	12	24.0	Feb. 27, 1917	-6	Sept. 3, 1906
Parkers Landing, Pa.	do	48	846.51	85	7,653	18	25.7	Mar. 26, 1913	-1.3	Sept. 8, 1886
Lock No. 5, Schenley, Pa.	do	60	734.5	30.6	9,329	24	30.7	Dec. 14, 1927	11.2	Aug. 3, 1930
Lock No. 4, Natrona, Pa.	do	6	724.5	24.1	11,403	24	28.3	Dec. 14, 1927	8.4	July 1, 1931
Lock No. 3, Springdale, Pa.	do	28	714.0	16.7	11,517	27	36.5	Mar. 27, 1913	5.0	Sept. 23, 1906
Philippi, W. Va.	Tygart	14	1,276.8	46	923	20	22.0	Oct. 3, 1929	-1	Sept. 29, 1930
Weston, W. Va.	West Fork	30	995.60	69	133	20	17.0	Oct. 3, 1929	-4	June 19, 1932
Rowlesburg, W. Va.	Cheat	48	1,369.7	44	917	12	25.0	July 10, 1888	-7	Dec. 6, 1906
Confluence, Pa.	Youghiogheny	60	1,308.9	68	982	13	20.4	Mar. 29, 1924	-8	Sept. 6, 1881
West Newton, Pa.	do	43	740.2	19	1,506	20	30.6	Feb. 27, 1912	-3	Sept. 14, 1892
Lock No. 15, Hout, W. Va.	Monongahela	29	838.9	124.2	2,437	22	29.4	Jan. 2, 1919	-7	Dec. 6, 1906
Lock No. 10, Morgantown, W. Va.	do	50	785.6	101.5	2,683	25	37.0	July 10, 1888	-2	Oct. 5, 1873
Lock No. 7, Greensboro, Pa.	do	45	753.0	84.8	4,447	30	39.5	July 30, 1911	6.2	Sept. 15, 1930
Lock No. 4, Charleroi, Pa.	do	47	716.17	41.5	5,223	30	43.53	July 11, 1888	4.73	Nov. 18, 1887
McKeesport, Pa.	do	27	718.2	14.6	7,161	20	16.2	Oct. 3, 1929	-9	Aug. 10, 1930
Sharon, Pa.	Shenango	21	839.82	28.2	576	9	18.6	Mar. 26, 1913	1.7	Aug. 11, 1930
Beaver Falls, Pa.	Beaver	25	731.2	4.0	3,086	15	17.4	Mar. 27, 1913	1.9	Aug. 10, 1913
Walhonding, Ohio	Walhonding	19	811.1	23	1,537	8	16.0	Feb. 26, 1929	-1.0	Dec. 1, 1924
Uhrichsville, Ohio	Stillwater Creek	11		8	367		11.0	Jan. 23, 1927	-6	Aug. 21, 1930
Dover, Ohio	Tuscarawas	26		60	1,405	9	16.1	Mar. 28, 1913	-0	Dec. 1, 1917
Newcomerstown, Ohio	do	5	785.0	23	2,432	11	13.5	Feb. 28, 1929	-4	Sept. 16, 1932
Coshocton, Ohio	do	25	736.60	2	4,843	8	27.5	Mar. 26, 1913	-1.8	Sept. 9, 1932
Lock No. 10, Zanesville, Ohio	Muskingum	42	665.3	75.8	6,840	25	51.8	Mar. 27, 1913	4.3	Oct. 14, 1895
Lock No. 7, McConnellsville, Ohio	do	20	635.0	48.2	7,411	22	49.1	Mar. 27, 1913	3.4	Oct. 9, 1916
Lock No. 4, Beverly, Ohio	do	27	602.6	24.7	7,937	25	46.5	Mar. 28, 1913	2.6	Aug. 22, 1910
Lock No. 3, Lowell, Ohio	do	4	588.1	13.9	7,978	25	28.2	Mar. 20, 1933	5.8	Aug. 12, 1930
Lock No. 1, Marietta, Ohio	do	19	575.6	2	8,038	28	37.3	Jan. 24, 1927	7.9	Aug. 19, 1930
Glenville, W. Va.	Little Kanawha	32	697.79	103.0	365	23	33.6	Nov. 16, 1926	-9	Nov. 10, 1906
Creston, W. Va.	do	32	621.91	48.0	1,214	20	32.0	Mar. 14, 1918	-3.0	Nov. 4, 1906
Athens, Ohio	Hocking	17	615.59	31.6	944	17	21.9	Apr. 16, 1922	2.2	Oct. 11, 1932
Camden on Gauley, W. Va.	Gauley	17	2,005.7	71	238	20	21.7	Dec. 15, 1901	-8	Nov. 11, 1915
Ivanhoe, Va.	New	16	1,941.9	194	1,311	15	20.0	Oct. 2, 1929	-0	Aug. 1, 1917
Radford, Va.	do	37		145	2,761	14	32.3	July 16, 1916	-2.0	Nov. 3, 1904
Glenlyn, Va.	do	7	1,492.0	95	3,859	11	14.8	Oct. 3, 1929	-1	Sept. 29, 1926
Hinton, W. Va.	do	46	1,351.64	63	6,288	14	20.2	Sept. 13, 1878	-7	Sept. 27, 1894
Clay, W. Va.	Elk	18	676.60	53.2	1,016	18	32.4	Mar. 14, 1918	-1	Sept. 11, 1925
Kanawha Falls, W. Va.	Kanawha	19	622.88	95.0	8,415	25	31.7	July 17, 1916	-9	Oct. 29, 1921
Charleston, W. Va.	do	60	558.65	58.0	10,495	30	41.6	Sept. 14, 1878	-1	Sept. 15, 1881
Logan, W. Va.	Guyandot	11	638.39	81.4	859	20	27.0	Jan. 28, 1918	-0	Oct. 10, 1923
Wayne, W. Va.	Twelvepole Creek	8	604.74	28.8	305	25	28.3	June 30, 1928	-3	July 16, 1930
Williamson, W. Va.	Tug Fork	26		57.3	941	38	38.1	Jan. 29, 1918	-8	Oct. 2, 1906
Kermit, W. Va.	do	13	574.77	35.0	1,268	38	38.8	Jan. 29, 1918	1.4	Oct. 4, 1920
Pikeville, Ky.	Levisa Fork	25	635.5	88.5	1,225	35	49.0	Jan. 28, 1918	-0	Oct. 23, 1923
Prestonsburg, Ky.	do	8	588.65	54.9	1,611	40	42.2	Mar. 24, 1929	1.4	July 6, 1930
Lock No. 3, Louisville, Ky.	Big Sandy	44	516.81	26.6	3,821	50	48.0	Mar. 6, 1899	-7	Nov. 18, 1884
Delaware, Ohio	Olentangy	23	848.58	26.2	415	9	25.5	Mar. 25, 1913	-0	Dec. 31, 1930
La Rue, Ohio	Scioto	17	910.19	196.2	255	11	15.0	Mar. 20, 1927	1.9	July 31, 1916
Prospect, Ohio	do	26	891.72	172.2	554	10	15.0	Mar. 22, 1927	-2	Oct. 2, 1910
Bellpoint, Ohio	do	19	810.0	156.3	770	9	12.2	Mar. 27, 1916	1.2	Aug. 22, 1921
Columbus, Ohio	do	35	700.03	131.9	1,613	22	22.9	Mar. 25, 1913	-8	July 27, 1923
Circleville, Ohio	do	21	647.03	100.4	3,217	10	24.2	Mar. 26, 1913	-2.2	Aug. 17, 1925
Chillicothe, Ohio	do	25	594.02	70.4	3,847	16	39.8	Mar. 26, 1913	1.0	Sept. 27, 1916
Kings Mills, Ohio	do	8	587.10	28.1	1,048	17	33.7	Mar. 26, 1913	-5	July 3, 1914
Cynthiana, Ky.	Little Miami	16		46	641	20	22.6	Dec. 24, 1921	-6	July 26, 1921
Farmers, Ky.	South Fork	16		172	782	25	31.1	Feb. 9, 1918	1.2	Aug. 17, 1917
Falmouth, Ky.	Licking	46	512.2	51.2	2,267	28	39.1	Dec. 25, 1921	-1	Sept. 6, 1930
Pleasant Hill, Ohio	Stillwater	17	846.55	29.2	502	13	16.4	Feb. 26, 1929	-8	Oct. 4, 1928
Springfield, Ohio	Mad	19	881.95	23.6	477	11	15.1	Feb. 26, 1929	1.6	Aug. 22, 1924
Brookville, Ind.	Whitewater	15	595.7	27	1,230	20	18.9	Apr. 20, 1920	1.1	Aug. 12, 1930
Sidney, Ohio	Miami	19	924.74	134.8	545	12	14.2	Mar. 21, 1927	-1	Sept. 1, 1924
Piqua, Ohio	do	22	844.00	122.1	850	17	29.1	Mar. 25, 1913	1.1	July 31, 1930
Tippencanoe City, Ohio	do	10	788.77	104.5	955	25	11.8	Mar. 21, 1927	-1.4	Aug. 23, 1932
Dayton, Ohio	do	40	721.01	84.5	2,515	21	31.7	Mar. 25, 1913	-1	Sept. 5, 1925
Miamisburg, Ohio	do	10	678.44	68.6	2,719	22	19.0	Feb. 27, 1929	-3	Oct. 17, 1929
Franklin, Ohio	do	10	658.41	61.3	2,731	16	14.7	Mar. 22, 1927	-2	Sept. 6, 1925
Middletown, Ohio	do	10	624.65	53.6	3,158	15	19.0	Feb. 27, 1929	-0	Oct. 8, 1924
Hamilton, Ohio	do	23	580.00	35.3	3,637	17	43.1	Mar. 26, 1913	-1.7	Oct. 21, 1932
Hazard, Ky.	North Fork	8		96.0	442	20	37.0	May 30, 1927	-4	Aug. 1, 1932
Beattyville, Ky.	Kentucky	30	623.35	255.0	1,856	30	40.1	Dec. 22, 1926	-2.6	June 6, 1916
Lock No. 7, Highbridge, Ky.	do	32	503.60	117.0	5,024	30	34.8	Dec. 26, 1926	4.7	Nov. 24, 1912
Lock No. 4, Frankfort, Ky.	do	47	462.17	65.0	5,396	31	38.3	Mar. 28, 1913	3.2	Nov. 1, 1908
Bowling Green, Ky.	Barren	9	408.04	29.5	1,875	20	36.5	Jan. 3, 1919	-0	Oct. 18, 1923
Munfordville, Ky.	Green	17	452.20	223	1,707	28	44.48	Dec. 18, 1915	1.7	Oct. 4, 1928
Lock No. 6, Brownsville, Ky.	do	16	403.26	180.6	2,751	28	52.8	Jan. 10, 1913	6.1	Sept. 10, 1919
Lock No. 4, Woodbury, Ky.	do	34	373.80	149.5	5,446	33	54.4	Jan. 11, 1913	5.0	Sept. 17, 1902
Lock No. 2, Rumsey, Ky.	do	34	343.64	62.8	7,681	34	47.9	Mar. 31, 1904	3.7	July 28, 1902
Anderson, Ind.	West Fork	22	825.0	281	428	8	22.9	Mar. 25, 1913	1.7	Dec. 9, 1917
Noblesville, Ind.	do	19		257	844	14	18.8	Jan. 31, 1916	3.0	Aug. 29, 1914
Indianapolis, Ind.	do	22	670.7	225	1,590	12	29.5	Mar. 26, 1913	2.2	Aug. 7, 1918
Elliston, Ind.	do	25	472.94	120	4,470	18	31.3	Mar. 27, 1913	5.5	Jan. 11, 1909
Edwardsport, Ind.	do	10		30	4,995	12	20.3	Jan. 14, 1930	2.2	Jan. 1, 1931
Seymour, Ind.	East Fork	10	555.54	118	2,292	10	14.5	Jan. 10, 1930	-0	Jan. 23, 1925
Williams, Ind.	do	12		64	4,584	10	20.6	Jan. 14, 1930	-2.0	Jan. 1, 1931
Shoals, Ind.	do	25	442.21	45	4,828	25	42.2	Mar. 28, 1913	1.7	Dec. 7, 1914
Decker, Ind.	White	19	387.4	20	11,135	16	29.0	Jan. 17, 1930	-1.5	Feb. 13, 1931
Bluffton, Ind.	Wabash	22		427	555	10	20.0	Mar. 26, 1913	-7	June 23, 1913
Logansport, Ind.	do	16		341	3,860	17	25.5	Mar. 26, 1913	2.2	Dec. 4, 1914
La Fayette, Ind.	do	19	504.14	308	7,324	11	24.0	Jan. 16, 1930	-8	Jan. 14, 1931
Covington, Ind.	do	6	473.97	268	8,399	16	27.7	Jan. 17, 1930	1.2	Oct. 5, 1928
Terre Haute, Ind.	do	28	445.70	214.4	12,333	14	31.3	Mar. 27, 1913	-2.0	Feb. 6, 1892
Vincennes, Ind.	do	16	396.43	127.8	13,840	14	25.2	Jan. 17, 1930	-2	Jan. 23, 1931
Mount Carmel, Ill.	do	44	371.46	94.5	28,606	19	31.0	Mar. 30, 1913	-2	Nov. 7, 1895
New River, Tenn.	New	25								

RIVER GAGE READINGS

MISSISSIPPI SYSTEM—OHIO BASIN—Continued

1932	January	February	March	April	May	June	July	August	September	October	November	December	1932	January	February	March	April	May	June	July	August	September	October	November
WABASH RIVER AT TERRE HAUTE, IND.													WABASH RIVER AT MOUNT CARMEL, ILL.											
Wabash—Ohio													Wabash—Ohio											
[Flood stage, 14 feet]													[Flood stage, 19 feet]											
1	6.2	9.2	3.8	5.9	5.8	1.0	3.8	0.4	-0.1	0.2	1.5	4.3	1	13.2	21.3	6.0	7.6	7.7	1.9	6.6	1.5	1.0	4.9	
2	6.4	7.6	3.7	5.4	7.0	1.2	4.0	7	-1	0.3	1.4	4.3	2	13.6	20.3	5.8	7.7	7.8	1.9	7.0	1.4	1.0	4.6	
3	6.2	7.0	3.7	4.8	8.1	1.1	3.0	3.7	0	0.3	1.4	3.0	3	13.5	19.0	5.6	7.5	8.1	2.1	7.2	1.4	1.2	4.1	
4	5.8	8.1	4.5	4.8	7.5	1.3	2.4	5.7	4.4	4	1.4	2.7	4	13.3	18.0	5.4	7.5	8.6	2.3	7.1	2.8	3.0	3.8	
5	5.7	10.3	5.0	4.8	6.0	1.4	3.0	3.9	3.4	4	1.4	2.6	5	13.2	15.8	5.5	7.4	8.6	2.5	6.6	4.0	5.4	4.3	
6	6.2	9.0	5.0	4.2	5.0	1.2	16.0	2.5	2.0	4	1.9	2.6	6	13.6	15.4	5.2	6.8	8.0	2.9	6.8	5.5	6.7	4.7	
7	7.0	8.0	5.1	3.7	4.4	1.6	4.8	1.6	3.8	4	2.1	3.9	7	14.3	15.1	6.0	6.2	7.0	2.9	8.0	6.3	6.5	4.5	
8	7.0	7.9	4.8	3.6	4.0	1.4	3.6	1.6	3.6	4	2.1	7.9	8	14.3	14.7	6.1	5.8	6.2	2.7	9.2	5.5	5.2	4.4	
9	8.9	7.8	4.3	3.5	4.0	1.4	2.5	1.1	2.7	7	1.7	10.5	9	14.1	14.3	6.0	5.5	5.6	2.6	9.4	4.6	4.3	4.2	
10	9.6	7.5	4.3	3.2	5.0	1.0	2.0	1.9	1.8	1.0	1.6	12.1	10	14.0	13.8	5.7	5.4	5.2	2.4	8.8	4.0	3.7	3.4	
11	7.8	7.3	4.1	3.0	5.4	.9	2.0	.8	1.6	.9	2.3	12.7	11	14.0	13.2	5.4	5.5	5.1	2.4	8.2	3.7	3.0	3.2	
12	6.6	8.8	4.5	3.0	4.8	.8	2.7	.6	1.2	.8	2.1	12.6	12	13.8	12.8	5.2	5.5	5.1	2.1	7.3	5.0	2.8	3.0	
13	7.4	11.7	4.3	3.4	4.0	.7	2.7	.6	1.0	.8	2.2	9.9	13	14.0	12.7	4.5	5.6	5.1	1.9	6.6	4.4	2.2	3.0	
14	8.7	12.4	(*)	3.8	3.5	.8	2.1	.4	.8	.6	2.2	8.0	14	13.8	12.9	4.5	5.5	4.9	1.9	6.0	3.1	2.0	3.0	
15	9.0	12.8	3.4	4.0	3.4	.6	1.8	.4	.6	.6	1.7	5.8	15	15.4	13.3	4.4	5.4	4.5	1.8	5.2	2.4	1.9	2.9	
16	12.7	11.8	3.2	3.9	3.1	.6	1.5	.3	.6	.6	1.7	(*)	16	16.3	13.6	4.4	5.3	4.1	2.0	4.6	2.1	1.7	2.7	
17	14.2	10.2	3.0	3.6	3.0	1.2	1.0	.3	.7	.7	1.7	(*)	17	17.5	13.8	5.9	5.0	3.9	2.0	3.8	1.8	1.4	2.5	
18	15.3	8.9	3.0	3.3	2.8	1.3	.9	.2	.6	.9	1.6	(*)	18	19.0	13.2	6.0	4.9	3.6	2.0	3.2	2.0	1.4	2.6	
19	16.0	7.7	3.0	3.0	2.6	1.1	.9	.2	.6	.6	1.8	(*)	19	20.0	12.0	6.1	4.6	3.5	2.1	2.8	2.5	1.2	2.5	
20	16.2	7.0	2.8	2.7	2.2	1.3	.6	1	.7	.6	1.5	(*)	20	20.9	10.7	6.0	4.3	3.2	2.1	2.4	2.3	1.2	2.3	
21	16.3	6.2	2.8	2.4	2.0	1.3	.6	1	.6	.5	1.5	2.4	21	21.5	9.7	6.1	4.0	3.1	2.3	2.2	2.3	1.8	2.2	
22	16.9	6.0	3.2	2.4	1.8	1.1	.6	0	.4	.4	1.8	3.1	22	22.2	9.1	6.5	3.9	2.9	2.3	2.0	1.9	2.7	2.0	
23	17.6	5.5	3.5	2.4	1.8	.9	.6	0	.4	.4	1.8	3.1	23	22.8	8.5	7.2	3.8	2.7	2.1	2.0	1.6	2.6	2.0	
24	16.8	5.1	4.0	2.4	1.6	.7	.3	0	.2	.4	2.8	5.7	24	23.3	8.2	7.4	3.8	2.6	1.9	1.8	1.4	2.4	1.8	
25	15.6	4.8	4.2	2.3	1.6	.7	.3	-	.2	.4	3.2	11.8	25	23.6	7.7	7.5	4.1	2.5	1.8	1.7	1.2	2.1	1.8	
26	14.8	4.8	5.4	2.3	1.5	.4	.4	-	.2	.4	3.2	13.8	26	23.8	7.3	7.7	4.4	2.4	1.7	1.6	1.1	1.8	1.8	
27	14.2	4.3	6.4	3.2	1.4	.4	.4	-	.2	.4	4.2	14.0	27	23.7	7.0	7.8	4.5	2.3	1.7	1.6	1.0	1.6	1.7	
28	13.3	4.1	7.1	4.8	1.3	2.7	.3	-	.2	.8	4.8	14.5	28	23.5	6.6	7.9	4.5	2.4	1.7	1.6	1.3	2.1	1.7	
29	11.5	4.0	7.3	6.8	1.1	2.5	.4	-	.3	1.0	5.1	14.9	29	23.2	6.3	7.7	4.7	2.3	3.0	1.5	1.2	4.4	2.0	
30	11.1	-----	6.8	6.4	1.0	2.9	.4	-	.2	1.0	5.1	15.0	30	22.8	-----	7.4	5.8	2.1	5.6	1.4	1.2	5.0	2.1	
31	10.5	-----	6.2	-----	1.1	-----	.4	-	1.5	-----	-----	15.5	31	22.0	-----	7.4	-----	2.1	-----	1.5	1.0	-----	2.4	
Mean	11.0	7.8	4.4	3.8	3.5	1.2	1.8	.8	1.1	.6	2.3	8.3	Mean	17.9	12.6	6.1	5.4	4.6	2.3	4.7	2.6	2.8	3.0	
WABASH RIVER AT VINCENNES, IND.													NEW RIVER AT NEW RIVER, TENN.											
Wabash—Ohio													New—South Fork—Cumberland—Ohio											
[Flood stage, 14 feet]													[Flood stage, 18 feet]											
1	8.2	10.8	3.7	5.4	5.8	1.2	2.6	0.5	0.1	1.0	1.6	4.1	1	2.9	4.5	3.1	2.9	3.2	1.6	2.8	2.0	2.3	2.0	
2	8.3	9.6	3.5	5.2	5.2	1.2	2.8	.5	.1	.6	2.0	3.7	2	2.8	4.5	3.1	2.9	3.1	1.6	2.6	2.0	2.2	2.0	
3	8.1	8.4	3.3	4.7	5.2	1.5	3.0	1.9	1.0	.5	1.9	3.2	3	2.8	5.0	3.0	2.8	3.0	1.6	2.7	2.0	2.2	2.0	
4	7.4	6.9	3.5	4.2	6.0	1.6	3.0	4.5	2.7	.5	1.8	2.8	4	2.7	14.0	3.4	2.7	2.9	1.6	2.7	1.9	2.2	2.0	
5	6.9	8.2	3.9	4.1	6.1	1.6	4.1	4.6	4.7	2.2	1.6	2.7	5	2.6	5.0	3.6	2.6	2.8	1.7	3.0	1.9	2.2	2.0	
6	7.7	9.2	4.3	4.0	5.2	1.5	3.8	3.7	4.5	1.4	1.5	2.5	6	3.0	4.0	3.5	2.6	2.7	1.6	3.9	1.9	2.1	2.2	
7	8.0	8.8	4.5	3.8	4.4	1.4	3.8	2.9	3.2	1.3	1.4	2.4	7	3.4	4.0	3.4	2.5	2.6	1.6	6.2	1.9	2.1	2.2	
8	7.5	7.8	4.3	3.6	4.1	1.5	4.6	2.2	2.9	.9	2.0	4.5	8	3.2	3.8	3.3	2.5	2.5	1.6	4.0	1.9	2.1	2.1	
9	7.2	7.3	4.0	3.4	3.7	1.5	3.5	1.7	3.0	.7	2.2	6.8	9	3.1	3.7	3.2	2.4	2.4	1.6	3.7	1.9	2.0	2.0	
10	7.0	7.1	3.9	3.1	3.7	1.4	2.5	1.5	2.6	.6	2.6	8.4	10	3.0	3.6	3.0	4.0	2.4	1.6	3.4	1.9	2.0	2.0	
11	7.1	6.9	3.5	2.9	4.0	1.2	2.1	1.9	2.1	1.3	3.0	8.7	11	2.9	3.5	2.9	3.9	2.2	1.6	2.9	1.9	2.0	2.0	
12	6.9	7.3	2.9	2.8	4.4	1.1	1.9	2.4	1.6	1.1	2.6	8.9	12	2.8	3.5	2.8	3.7	2.2	1.6	2.8	1.9	2.0	2.0	
13	6.9	7.7	2.9	2.7	4.2	1.0	2.2	1.3	1.4	1.0	2.5	9.3	13	2.5	3.5	2.7	3.4	2.2	1.6	2.6	1.9	2.0	2.0	
14	8.6	8.8	3.1	2.6	3.7	.9	2.3	.9	1.3	1.0	2.4	8.8	14	2.4	3.4	2.6	3.3	2.0	1.6	2.5	1.9	2.0	1.9	
15	9.3	9.6	3.2	3.0	3.3	.9	2.0	.7	1.1	.9	1.9	(*)	15	2.3	3.3	2.5	3.2	2.1	1.5	2.4	1.9	2.0	1.9	
16	10.2	9.9	3.1	3.1	2.9	.8	1.7	.6	1.0	.9	2.1	(*)	16	2.3	3.4	2.4	3.0	2.0	1.5	2.3	1.9	2.0	1.9	
17	11.6	10.0	3.3	3.5	2.8	1.1	1.4	.5	.8	.9	3.2	(*)	17	2.2	5.0	2.3	3.0	2.0	1.5	2.3	1.9	1.9	6.5	
18	13.2	9.1	3.1	3.1	2.7	1.0	1.2	1.1	.6	.8	3.4	(*)	18	2.1	4.0	2.3	2.9	2.0	1.5	2.2	2.4	1.9	4.0	
19	13.7	8.0	2.9	2.9	2.6	1.2	1.0	.9	.6	.8	2.7	(*)	19	2.1	3.8	2.3	2.8	1.9	2.1	2.2	2.7	1.9	3.2	
20	13.9	7.2	2.8	2.8	2.5	1.1	.8	.6	1.1	.8	2.2	(*)	20	2.1	3.7	2.3	2.4	1.9	2.0	2.2	2.6	1.9	3.0	
21	14.1	6.5	2.7	2.5	2.3	1.2	.7	.5	.8	.8	2.0	(*)	21	2.0	5.0	2.2	2.3	1.9	2.0	2.2	2.6	1.8	2.9	
22	15.1	6.0	2.8	2.4	2.0	1.1	.6	.5	.8	.8	1.9	(*)	22	2.0	6.0	2.1	2.3	1.9	2.0	2.1	2.5	2.0	2.8	
23	16.4	5.5	3.0	2.3	1.9	1.1	.5	.4	.7	.7	2.2	2.2	23	2.0	4.0	2.0	2.2	1.8	2.0	2.1	2.5	2.0	2.7	
24	16.6	5.1	3.1	2.3	1.8	.9	.4	.4	.7	.7	3.2	3.2	24	3.8	3.8	2.0	2.0	1.8	2.0	2.1	2.5	2.0	2.6	
25	16.8	4.6	3.3	2.2	1.7	.9	.4	.3	.6	.6	3.6	7.2	25	3.6	3.6	1.9	3.6	1.8	2.0	2.1	2.5	2.0	2.5	
26	16.6	4.5	3.5	2.5	1.5	.9	.3	.3	.6	.6	3.7	9.7	26	3.5	3.5	1.9	7.6	1.8	2.0	2.1	2.4	2.0	2.4	
27	16.6	4.2	3.9	2.6	1.6	1.1	.4	.3	.7	.6	3.5	10.6	27	5.0	3									

Station	River	Miscellaneous data	Gage readings	Station	River	Miscellaneous data	Gage readings
Marble Falls, Tex.	Colorado	Page 9	Page 143	Piqua, Ohio	Miami	Page 6	Page 88
Marcus, Wash.	Columbia	9	158	Pittsburgh, Pa.	Ohio	7	106
Marletta, Ohio	Muskingum	6	80	Plattsmouth, Nebr.	Missouri	5	70
Marletta, Ohio	Ohio	7	108	Pleasant Hill, Ohio	Stillwater	6	87
Marked Tree, Ark.	St. Francis	8	132	Point Pleasant, W. Va.	Ohio	7	109
Markland, Ind.	Ohio	7	112	Poplar Bluff, Mo.	Black	7	118
Mars Bluff Bridge, S.C.	Peedee	4	32	Portage, Wis.	Wisconsin	5	52
Marshall, N.C.	French Broad	7	100	Port Jervis, N.Y.	Delaware	3	22
Marysville, Calif.	Yuba	9	161	Portland, Mich.	Grand	3	---
Mauch Chunk, Pa.	Lehigh	3	21	Portland, Oreg.	Willamette	9	158
Mayas Bar Lock, Ga.	Cocosa	4	44	Portsmouth, Ohio	Ohio	7	110
Mechanicsville, N.Y.	Hudson	3	20	Poston, S.C.	Peedee	4	33
Mehama, Oreg.	North Santiam	9	156	Prairie du Chien, Wis.	Mississippi	5	59
Meldrim, Ga.	Ogeechee	4	37	Prestonsburg, Ky.	Levisa Fork	6	84
Melville, La.	Atchafalaya	8	138	Prospect, Ohio	Scioto	6	85
Memphis, Tenn.	Mississippi	8	134	Pueblo, Colo.	Arkansas	8	124
Mendota, Va.	Holston-North Fork	7	99	Quincy, Ill.	Mississippi	5	61
Mercedes, Tex.	Rio Grande	9	147	Radford, Va.	New	6	81
Merrill, Iowa	Floyd	5	---	Ralston, Okla.	Arkansas	8	125
Merrill, Miss.	Pascagoula	4	49	Randolph, Va.	Roanoke	4	29
Merrill, Wis.	Wisconsin	5	51	Ravenswood, W. Va.	Ohio	7	109
Miamishow, Ohio	Miami	6	89	Reading, Pa.	Schuylkill	3	21
Middletown, Ohio	do	6	90	Reads, Minn.	Mississippi	5	58
Midland, Mich.	Tittabawassee	3	---	Red Bluff, Calif.	Sacramento	9	152
Midville, Ga.	Ogeechee	4	37	Red Wing, Minn.	Mississippi	5	58
Miles City, Mont.	Yellowstone	5	---	Renovo, Pa.	Susquehanna-West Branch	3	23
Milladgewilla, Ga.	Oconee	4	38	Resaca, Ga.	Oostanaula	4	44
Millers Ferry, Ala.	Alabama	4	40	Reserve, La.	Mississippi	8	137
Millstead, Ala.	Tallahassee	4	45	Rhineland, Wis.	Wisconsin	5	51
Moline, Ill.	Rock	5	53	Richmond, Va.	James	4	28
Moncure, N.C.	Haw	4	31	Rimoli, S.C.	Santee	4	35
Monroe, La.	Ouachita	8	134	Ringo Crossing, Tex.	Sulphur	8	128
Montezuma, Ga.	Flint	4	41	Riogrande, Tex.	Rio Grande	9	147
Montgomery, Ala.	Alabama	4	40	Rio Vista, Calif.	Sacramento	9	153
Monticello, Miss.	Pearl	4	50	River Falls, Wis.	Conecuh	4	43
Moorhead, Minn.	Red of North	3	14	River Junction, Fla.	Apalachicola	4	41
Morgan City, La.	Atchafalaya	8	138	Riverside, Tex.	Trinity	8	141
Morgantown, W. Va.	Monongahela	6	70	Riverton, Va.	Shenandoah	4	26
Morrilton, Ark.	Arkansas	8	127	Riverton Lock, Ala.	Tennessee	7	105
Morris, Ill.	Illinois	5	54	Rock Island, Tenn.	Caney Fork	6	97
Mount Carmel, Ill.	Wabash	6	90	Rockland, Tex.	Neches	8	139
Mount Holly, N.C.	Catawba	4	34	Rockwood, Tenn.	Tennessee	7	103
Mount Pleasant, Mich.	Chippewa	3	---	Rocky Mount, N.C.	Tar	4	30
Mount Vernon, Ind.	Ohio	7	115	Rogersville, Tenn.	Holston	7	99
Mud, Tex.	Colorado	9	143	Rome, Ga.	Oostanaula	4	44
Munfordville, Ky.	Green	6	91	Rosenberg, Tex.	Brazos	9	143
Muscatine, Iowa	Mississippi	5	60	Rowlesburg, W. Va.	Cheat	6	75
Naples, Tex.	Sulphur	8	128	Rumsey, Ky.	Green	6	92
Nashville, Tenn.	Cumberland	7	98	Sacramento, Calif.	Sacramento	9	153
Natchez, Miss.	Mississippi	8	136	Sageeyah, Okla.	Verdigris	8	121
Natronna, Pa.	Allegheny	6	74	Saginaw, Mich.	Saginaw	3	15
Neosho Rapids, Kans.	Neosho	8	122	Saginaw, Oreg.	Willamette-Coast Fork	9	155
Neuse, N.C.	Neuse	4	30	St. Charles, Mo.	Missouri	5	72
New Braunfels, Tex.	Gaudalupe	9	144	St. Francis, Ark.	St. Francis	8	131
Newburgh, Ind.	Ohio	7	114	St. John, Calif.	Stony Creek	9	---
Newcomerstown, Ohio	Tuscarawas	6	79	St. Joseph, Mo.	Missouri	5	71
New Madrid, Mo.	Mississippi	8	134	St. Louis, Mo.	Mississippi	5	62
New Orleans, La.	do	8	137	St. Marys, W. Va.	Ohio	7	107
Newport, Ark.	White	7	120	St. Paul, Minn.	Mississippi	5	57
Newport, Pa.	Juniata	3	24	St. Thomas, Mo.	Osage	5	68
Newport, Tenn.	Pigeon	7	100	Salem, Oreg.	Willamette	9	157
Newport, Wash.	Clark Fork	9	154	Salida, Colo.	Arkansas	8	---
New Richmond, Ohio	Ohio	7	111	Saltsburg, Pa.	Kiskiminitas	6	73
New River, Tenn.	New	6	96	Samson, Ala.	Pea	4	42
Newton, Ala.	Choctawhatchee	4	42	Sanish, N. Dak.	Missouri	5	---
Nicolaus, Calif.	Feather	9	151	Sapinero, Colo.	Gunnison	9	---
Noblesville, Ind.	White-West Fork	6	93	Savannah, Tenn.	Tennessee	7	106
Norcross, Ga.	Chattahoochee	4	40	Schenectady, N.Y.	Mohawk	3	---
North Platte, Nebr.	North Platte	5	64	Schenley, Pa.	Allegheny	6	74
North Platte, Nebr.	South Platte	5	64	Selma, Ala.	Alabama	4	46
Okay, Okla.	Verdigris	8	---	Seymour, Ind.	White-East Fork	6	94
Olean, N.Y.	Allegheny	6	73	Sharon, Pa.	Shenango	6	77
Omaha, Nebr.	Missouri	5	70	Shawneetown, Ill.	Ohio	7	115
Orange, Tex.	Sabine	8	139	Sherburne, N.Y.	Chenango	3	22
Oregon City, Oreg.	Willamette	9	157	Shields, Mich.	Tittabawassee	3	---
Oroville, Calif.	Feather	9	151	Shoals, Ind.	White-East Fork	6	94
Oseola, Mo.	Osage	5	67	Shreveport, La.	Red	8	130
Oswego, Kans.	Neosho	8	122	Shubuta, Miss.	Chickasawhay	4	49
Ottumwa, Iowa	Des Moines	5	64	Sidney, Ohio	Miami	6	88
Overton, Nebr.	Platte	5	---	Simmesport, La.	Atchafalaya	8	138
Owensboro, Ky.	Ohio	7	114	Sioux City, Iowa	Missouri	5	70
Owosso, Mich.	Shiawassee	3	---	Smithfield, N.C.	Neuse	4	21
Ozark, Ark.	Arkansas	8	126	Smithville, Tex.	Colorado	9	144
Ozark Beach, Mo.	White	7	119	Solomon, Kans.	Smoky Hill	5	65
Pacific, Mo.	Meramec	5	57	Spears Ferry, Va.	Clinch	7	101
Paducah, Ky.	Ohio	7	116	Springbank, Ark.	Red	8	130
Panola, Colo.	Gunnison-North Fork	9	---	Springdale, Pa.	Allegheny	6	75
Parker, Ariz.	Colorado	9	---	Springfield, Mass.	Connecticut	3	19
Parkersburg, W. Va.	Ohio	7	108	Springfield, Ohio	Mad.	6	88
Parkers Landing, Pa.	Allegheny	6	74	Steelville, Mo.	Meramec	5	56
Parkin, Ark.	St. Francis	8	132	Stuyvesant, N.Y.	Hudson	3	---
Pearl, Ill.	Illinois	5	56	Sunbury, Pa.	Susquehanna	4	25
Pearl River, La.	West Pearl	4	---	Swan Lake, Miss.	Tallahatchie	8	132
Pelzer, S.C.	Saluda	4	33	Sycamore Island, Md.	Potomac	4	27
Pensacola, Okla.	Neosho	8	---	Tarboro, N.C.	Tar	4	30
Peoria, Ill.	Illinois	5	55	Terre Haute, Ind.	Wabash	6	96
Perkins, Okla.	Cimarron	8	121	The Dalles, Oreg.	Columbia	9	159
Peru, Ill.	Illinois	5	55	Three Rivers, Tex.	Nueces	9	145
Phillippi, W. Va.	Tygart	6	75	Tiffin, Ohio	Sandusky	3	17
Phillipsburg, N.J.	Delaware	3	22	Tippecanoe City, Ohio	Miami	6	89
Phoenix, Ariz.	Salt	9	---	Toimahawk, Wis.	Spirit	5	51
Piedra, Calif.	Kings	9	---	Topeka, Kans.	Kansas	5	66
Pierre, S. Dak.	Missouri	5	69	Topeka, Ariz.	Colorado	9	149
Pikeville, Ky.	Levisa Fork	6	84	Towanda, Pa.	Susquehanna	3	25
Pine Bluff, Ark.	Arkansas	8	127	Tracy, Iowa	Des Moines	5	54

W. B. No. 1143.

UNITED STATES DEPARTMENT OF AGRICULTURE

WEATHER BUREAU, WILLIS R. GREGG, Chief

DAILY RIVER STAGES

AT RIVER GAGE STATIONS ON THE
PRINCIPAL RIVERS OF THE
UNITED STATES

REFERENCE

DO NOT CIRCULATE
DO NOT CIRCULATE

VOLUME XXXI

1933

Community Affairs File

COMPILED BY MONTROSE W. HAYES

PRINCIPAL METEOROLOGIST



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INTRODUCTION

This volume, containing the daily river stages for 1933, is the thirty-first of a series of Daily River Stages on the Principal Rivers of the United States, the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.

II. Stages of the Mississippi River and of its Principal Tributaries, except the Ohio River, 1860 to 1889.

III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.

DAILY STAGES AT RIVER GAGE STATIONS ON THE PRINCIPAL RIVERS OF THE UNITED STATES

Volume IV. 1890 to 1892.	Volume XI. 1911 and 1912.	Volume XVIII. 1920.	Volume XXV. 1927.
V. 1893 to 1895.	XII. 1913 and 1914.	XIX. 1921.	XXVI. 1928.
VI. 1896 to 1899.	XIII. 1915.	XX. 1922.	XXVII. 1929.
VII. 1900 to 1904.	XIV. 1916.	XXI. 1923.	XXVIII. 1930.
VIII. 1905 and 1906.	XV. 1917.	XXII. 1924.	XXIX. 1931.
IX. 1907 and 1908.	XVI. 1918.	XXIII. 1925.	XXX. 1932.
X. 1909 and 1910.	XVII. 1919.	XXIV. 1926.	

Volumes XVI to XXXI can be bought from the Superintendent of Documents, Washington, D.C.; volumes I to XV are out of print and cannot be supplied.

The river stages are the vertical distances, in feet and tenths, of the water surface above or below the zero of the gage. The zero has, as a rule, been set at or near the lowest known water.

Gage readings are usually made at 8 a.m., seventy-fifth meridian time, east of the Continental Divide, and at 7 a.m., local time, west of the divide.

Extreme stages for a month, not observed at the regular time for reading the gage, are printed as a note at the foot of the table or page. This practice was begun in 1907.

In some cases the zero planes of gages have been changed, either through accident or through necessary removals. The stations at which changes have occurred are given in a table headed "Corrigenda", and the corrections required to reduce previous readings to the zero now in use are also given in the table if they have not been previously published.

The country is divided into districts, and each district has a designated center at which the administrative and forecasting work is carried on. The following table shows the centers, and their districts. Superior figure (¹) opposite a center indicates that stage forecasts are made daily throughout the year, and (²) indicates that stage forecasts are made daily during seasons of navigation and in times of flood. At those centers not bearing a reference forecasts are made only during times of flood.

ADMINISTRATIVE AND FORECASTING CENTERS AND THEIR DISTRICTS

Albany, N.Y.-----	Hudson River and tributaries.
Albuquerque, N.Mex....	Pecos River and tributaries. Rio Grande and tributaries at and above El Paso, Tex.; Canadian River and tributaries in New Mexico.
Atlanta, Ga.-----	Apalachicola River and tributaries.
Augusta, Ga.-----	Savannah and Ogeechee Rivers and tributaries.
Binghamton, N.Y.-----	Susquehanna River and tributaries at and above Binghamton, N.Y.
Bismarck, N.Dak.-----	Missouri River and tributaries at and above Bismarck, N.Dak.
Brownsville, Tex.-----	Rio Grande and Texas tributaries (except the Pecos) below El Paso, Tex.
Cairo, Ill.¹-----	Ohio River below the mouth of the Wabash; Mississippi River from and including Cape Girardeau, Mo., to and including New Madrid, Mo; Tennessee River and tributaries below Decatur, Ala.
Charleston, S.C.-----	Rivers of northeastern South Carolina.
Chattanooga, Tenn.¹-----	Tennessee River and tributaries from below Knoxville, Tenn., to and including Decatur, Ala.
Cincinnati, Ohio ¹-----	Ohio River and southern tributaries from and including the mouth of the Kanawaha, to and including the mouth of the Little Kentucky; the northern tributaries of the Ohio from Dam No. 31 to a point opposite the mouth of the Little Kentucky.
Columbia, S.C.-----	Santee River and tributaries.
Columbus, Ohio.-----	The Sandusky River; the northern tributaries of the Ohio River from Dam No. 17 to Dam No. 31.
Dallas, Tex.¹-----	Trinity River and tributaries above Long Lake, Tex.
Davenport, Iowa ²-----	Mississippi River and tributaries from below Dubuque, Iowa, to and including the mouth of the Iowa, but not including Keithsburg, Ill.
Denver, Colo.-----	Colorado River and tributaries, except the Gila; Arkansas River and tributaries in Colorado.
Des Moines, Iowa.-----	Des Moines River and tributaries above Eldon, Iowa.
Dubuque, Iowa ¹-----	Mississippi River and tributaries from below La Crosse, Wis., to and including Dubuque, Iowa; the Wisconsin River and tributaries.
Evansville, Ind.¹-----	Ohio River and tributaries from below Hawesville, Ky., to the mouth of, but not including, the Wabash.
Fort Smith, Ark.-----	Arkansas River and tributaries (except the Neosho in Kansas, and the Canadian) from the Kansas-Oklahoma line to and including Fort Smith, Ark.
Fort Wayne, Ind.-----	Maumee River and tributaries.
Fresno, Calif.-----	San Joaquin River and tributaries above the mouth of the Tuolumne.
Grand Rapids, Mich.-----	Grand River and tributaries below Grand Ledge, Mich.

Harrisburg, Pa.....	Susquehanna River and tributaries below Binghamton, N.Y.
Hartford, Conn.....	Connecticut River and tributaries.
Houston, Tex. ¹	Sabine, Neches, and Brazos Rivers; Trinity River at and below Long Lake, Tex.
Indianapolis, Ind.....	Wabash River and tributaries.
Kansas City, Mo. ¹	Missouri River and eastern tributaries from the mouth of the Platte to and including Lexington, Mo.
Keokuk, Iowa.....	Mississippi River and tributaries (except the Iowa and the Des Moines above Eldon, Iowa) from a including Keithsburg, Ill., to and including Louisiana, Mo.
Knoxville, Tenn. ¹	Tennessee River and tributaries at and above Knoxville, Tenn.
La Crosse, Wis. ²	Mississippi River and tributaries from below St. Paul, Minn., to and including La Crosse, Wis.
Lansing, Mich.....	Grand River and tributaries at and above Grand Ledge, Mich.; Saginaw River and tributaries.
Little Rock, Ark. ¹	Arkansas River and tributaries below Fort Smith, Ark.; White River and tributaries, except the Black Missouri; Ouachita River and tributaries in Arkansas.
Louisville, Ky. ¹	Ohio River and tributaries from mouth of the Kentucky to and including Hawesville, Ky.
Macon, Ga.....	Altamaha River and tributaries.
Memphis, Tenn. ¹	Mississippi River from below New Madrid, Mo., to the mouth of the White; St. Francis River and tributaries.
Meridian, Miss.....	Pascagoula, Pearl, and West Pearl Rivers and tributaries.
Minneapolis, Minn. ²	Mississippi River and tributaries at and above St. Paul, Minn.
Mobile, Ala. ¹	Tombigbee River and tributaries.
Montgomery, Ala. ¹	Alabama River and tributaries.
Moorhead, Minn.....	Red River of the North and tributaries below the Canadian line.
Nashville, Tenn. ¹	Cumberland River and tributaries.
New Orleans, La. ¹	Mississippi River below the mouth of the Big Black; Red River below Shreveport, La.; Ouachita and Black Rivers and tributaries in Louisiana; Atchafalaya River.
Oklahoma City, Okla.....	Canadian River and tributaries east of the eastern boundary of New Mexico.
Omaha, Nebr.....	Missouri River and tributaries from below Sioux City, Iowa, to and including the mouth of the Platte.
Parkersburg, W.Va. ¹	Ohio River and southern tributaries from below Dam No. 13 to and including Point Pleasant, W.Va.
Pensacola, Fla.....	Escambia and Choctawhatchee Rivers and tributaries.
Philadelphia, Pa.....	Delaware River and tributaries.
Phoenix, Ariz.....	Gila River and tributaries.
Pittsburgh, Pa. ¹	Ohio River and tributaries at and above Dam No. 13.
Portland, Oreg. ¹	Columbia River and tributaries.
Raleigh, N.C.....	The rivers, and their tributaries, that enter the Atlantic Ocean on the North Carolina coast.
Richmond, Va.....	James River and tributaries.
Sacramento, Calif.....	Rivers in the central valleys of California, except the San Joaquin above the mouth of the Tuolumne.
St. Louis, Mo. ¹	Mississippi River and its tributaries from Louisiana to Cape Girardeau, Mo., but not including either terminal (see Kansas City and Topeka centers for Missouri and Osage limits); Black River in Missouri.
San Antonio, Tex.....	Colorado, Guadalupe, Nueces, and San Antonio Rivers and tributaries.
Shreveport, La. ¹	Red River and tributaries at and above Shreveport, La.
Sioux City, Iowa.....	Missouri River and tributaries from below Bismarck, N.Dak., to and including Sioux City, Iowa.
Topeka, Kans.....	Kansas River and tributaries; Neosho and Osage Rivers and tributaries in Kansas.
Vicksburg, Miss. ¹	Mississippi River from the mouth of the White to the mouth of the Big Black; Yazoo and Big Black Rivers and tributaries.
Washington, D.C.....	Potomac River and tributaries.
Wichita, Kans.....	Arkansas River and tributaries in Kansas.

River stations, arranged by drainage areas, and miscellaneous information pertaining thereto—Continued

Station	River	Length of record ¹	Elevation of gage zero above mean sea level ²	Distance of gage above mouth of river ³	Drainage area above gage ⁴	Flood stage	Extreme stages from gage readings ⁵			
							Highest	Date	Lowest	Date
MISSISSIPPI SYSTEM—continued										
Ohio Basin										
Johnstown, Pa.	Stony Creek	44		Miles . 1.2	Sq. miles 480	Feet 15	Feet 18.0	Mar. 14, 1907	Feet 0.2	Aug. 21, 1911
Saltsburg, Pa.	Kiskiminitas	19	825.41	27	1,701	8	20.8	do.	-1.8	Oct. 4, 1911
Olean, N. Y.	Allegheny	17	1,403.40	259	1,137		15.6	May 2, 1909		Sept. 16, 1911
Warren, Pa.	do.	49	1,171.04	192	3,134	12	15.2	Mar. 27, 1913	-1.1	Sept. 23, 1911
Franklin, Pa.	do.	29	958.3	126	5,952	15	24.0	Feb. 27, 1917	-6	Sept. 3, 1911
Parkers Landing, Pa.	do.	49	846.51	85	7,653	18	25.7	Mar. 26, 1913	-1.3	Sept. 8, 1911
Lock No. 8, near Mosgrove, Pa.	do.	2	771.7	53.2	8,837	24				
Lock No. 5, Schenley, Pa.	do.	61	734.5	30.6	9,329	24	30.7	Dec. 14, 1927	11.2	Aug. 3, 1911
Lock No. 4, Natrona, Pa.	do.	7	724.5	24.1	11,403	24	28.3	do.	8.4	July 1, 1911
Lock No. 3, Springdale, Pa.	do.	29	714.0	16.7	11,517	27	36.5	Mar. 27, 1913	5.0	Sept. 23, 1911
Phillippi, W. Va.	Tygart	15	1,270.8	46	923	20	22.0	Oct. 3, 1929	-1	Sept. 28, 1911
Weston, W. Va.	West Fork	31	995.60	69	133	20	17.6	May 11, 1933	-4	June 19, 1911
Rowlesburg, W. Va.	Cheat	49	1,399.7	44	917	12	25.0	July 10, 1888	-7	Dec. 6, 1911
Confluence, Pa.	Youghiogheny	61	1,308.9	68	982	13	20.4	Mar. 29, 1924	-8	Sept. 6, 1911
West Newton, Pa.	do.	44	740.2	19	1,506	20	30.6	Feb. 27, 1912	-3	Sept. 14, 1911
Lock No. 15, Hout, W. Va.	Monongahela	30	838.9	124.2	2,437	22	29.4	Jan. 2, 1919	-7	Dec. 6, 1911
Lock No. 10, Morgantown, W. Va.	do.	51	785.6	101.5	2,683	25	37.0	July 10, 1888	-2	Oct. 6, 1911
Lock No. 7, Greensboro, Pa.	do.	46	753.0	84.8	4,447	30	39.5	July 30, 1911	6.2	Sept. 15, 1911
Lock No. 4, Charleroi, Pa.	do.	48	716.17	41.5	5,223	30	43.53	July 11, 1888	4.73	Nov. 18, 1911
McKeesport, Pa.	do.	21	718.2	14.6	7,161	20	16.9	Mar. 14, 1933	.9	Aug. 10, 1911
Sharon, Pa.	Shenango	22	839.82	28.2	576	9	18.6	Mar. 26, 1913	1.7	Aug. 11, 1911
Beaver Falls, Pa.	Beaver	26	731.2	4.0	3,086	15	17.4	Mar. 27, 1913	1.9	Aug. 10, 1911
Walhonding, Ohio	Walhonding	20	811.1	23	1,537	8	16.0	Feb. 26, 1929	-1.0	Dec. 1, 1911
Uhrichsville, Ohio	Stillwater Creek	12		8	367	11	11.8	Mar. 16, 1933	-6	Aug. 21, 1911
Dover, Ohio	Tuscarawas	27		60	1,405	9	16.1	Mar. 28, 1913	.0	Dec. 1, 1911
Newcomerstown, Ohio	do.	6	785.0	23	2,432	11	13.6	Mar. 17, 1933	-1.0	Oct. 16, 1911
Coshocton, Ohio	do.	26	736.60	.2	4,843	8	27.5	Mar. 26, 1913	-1.8	Sept. 9, 1911
Lock No. 10, Zanesville, Ohio	Muskingum	43	665.3	75.8	6,840	25	51.8	Mar. 27, 1913	4.3	Oct. 14, 1911
Lock No. 7, McConnellsville, Ohio	do.	21	635.0	48.2	7,411	22	49.1	do.	3.4	Oct. 9, 1911
Lock No. 4, Beverly, Ohio	do.	28	602.6	24.7	7,937	25	46.5	Mar. 28, 1913	2.6	Aug. 22, 1911
Lock No. 3, Lowell, Ohio	do.	5	588.1	13.9	7,978	25	28.2	Mar. 20, 1933	5.8	Aug. 12, 1911
Lock No. 1, Marietta, Ohio	do.	20	575.6	.2	8,038	28	37.3	Jan. 24, 1927	7.9	Aug. 19, 1911
Glenville, W. Va.	Little Kanawha	33	697.79	103.0	365	23	33.6	Nov. 16, 1926	-9	Nov. 10, 1911
Creston, W. Va.	do.	33	621.91	48.0	1,214	20	32.0	Mar. 14, 1918	-3.0	Nov. 4, 1911
Athens, Ohio	Hocking	18	615.59	31.6	944	17	21.9	Apr. 16, 1922	2.2	Oct. 11, 1911
Camden on Gauley, W. Va.	Gauley	18	2,005.7	71	238	20	21.7	Dec. 15, 1901	-8	Nov. 11, 1911
Ivanhoe, Va.	New	17	1,941.9	194	1,311	15	20.0	Oct. 2, 1929	.0	Aug. 1, 1911
Radford, Va.	do.	38		145	2,761	14	32.3	July 16, 1916	-2.0	Nov. 3, 1911
Glenlyn, Va.	do.	8	1,492.0	95	3,859	11	14.8	Oct. 3, 1929	.1	Sept. 29, 1926
Hinton, W. Va.	do.	47	1,351.64	63	6,288	14	20.2	Sept. 13, 1878	.7	Sept. 27, 1894
Clay, W. Va.	Elk	19	676.60	53.2	1,016	18	32.4	Mar. 14, 1918	1	Sept. 11, 1925
Kanawha Falls, W. Va.	Kanawha	20	622.88	95.0	8,415	25	31.7	July 17, 1916	-9	Oct. 29, 1911
Charleston, W. Va.	do.	61	558.65	59.0	10,495	34	41.6	Sept. 14, 1878	-1	Sept. 15, 1881
Logan, W. Va.	Guyandot	12	638.39	81.4	859	20	27.0	Jan. 28, 1918	.0	Oct. 10, 1923
Wayne, W. Va.	Twelvepole Creek	9	604.74	28.8	305	25	28.3	June 30, 1928	.3	July 16, 1930
Williamson, W. Va.	Tug Fork	27		57.3	941	38	38.1	Jan. 29, 1918	-8	Oct. 2, 1906
Kermit, W. Va.	do.	14	574.77	35.0	1,268	38	38.8	do.	1.4	Oct. 4, 1920
Pikeville, Ky.	Levisa Fork	26	635.5	88.5	1,225	35	49.0	Jan. 28, 1918	.0	Oct. 23, 1923
Paintsville, Ky.	do.	6	566.67	38.5			27.18	Nov. 19, 1929	1.06	July 23, 1930
Lock No. 3, Louisa, Ky.	Big Sandy	45	510.81	26.6	3,821	45	48.0	Mar. 6, 1899	.7	Nov. 18, 1884
Delaware, Ohio	Olentangy	24	848.58	26.2	415	9	25.5	Mar. 25, 1913	0	Dec. 31, 1930
La Rue, Ohio	Scioto	18	910.19	196.2	255	11	15.0	Mar. 20, 1927	1.9	July 31, 1916
Prospect, Ohio	do.	27	891.72	172.2	554	10	15.0	Mar. 22, 1927	.2	Oct. 2, 1910
Bellpoint, Ohio	do.	20	840.0	156.3	770	9	12.2	Mar. 27, 1916	1.2	Aug. 22, 1921
Columbus, Ohio	do.	36	700.03	131.9	1,613	22	22.9	Mar. 25, 1913	-8	July 27, 1923
Circleville, Ohio	do.	22	647.03	100.4	3,217	10	24.2	Mar. 26, 1913	-2.2	Aug. 17, 1925
Chillicothe, Ohio	do.	26	594.02	70.4	3,847	16	39.8	do.	1.0	Sept. 27, 1916
Kings Mills, Ohio	Little Miami	9	587.10	28.1	1,048	17	33.7	do.	.5	July 3, 1914
Cynthiana, Ky.	South Fork	17		46	641	20	22.6	Dec. 24, 1921	.6	July 26, 1921
Farmers, Ky.	Licking	17		172	782	25	31.1	Feb. 9, 1918	1.2	Aug. 17, 1917
Falmouth, Ky.	do.	47	512.2	51.2	2,267	28	39.1	Dec. 25, 1921	-1	Sept. 6, 1930
Pleasant Hill, Ohio	Stillwater	18	846.55	29.2	502	13	16.4	Feb. 26, 1929	.8	Oct. 4, 1928
Springfield, Ohio	Mad	20	881.95	23.6	477	11	15.1	do.	1.6	Aug. 22, 1924
Brookville, Ind.	Whitewater	16	595.7	27	1,230	20	19.3	Mar. 19, 1933	.9	Sept. 11, 1933
Sidney, Ohio	Miami	20	924.74	134.8	545	12	14.2	Mar. 21, 1927	-1	Sept. 1, 1924
Piqua, Ohio	do.	23	844.00	122.1	850	17	29.1	Mar. 25, 1913	1.0	Aug. 26, 1933
Tippecanoe City, Ohio	do.	11	788.77	104.5	955	25	11.8	Mar. 21, 1927	-1.4	Aug. 23, 1932
Dayton, Ohio	do.	41	721.01	84.5	2,515	21	31.7	Mar. 25, 1913	-1	Sept. 6, 1926
Miamisburg, Ohio	do.	11	678.44	68.6	2,719	22	19.0	Feb. 27, 1929	-3	Oct. 17, 1929
Franklin, Ohio	do.	11	658.41	61.3	2,731	16	16.1	May 15, 1933	.2	Sept. 6, 1925
Middletown, Ohio	do.	11	624.65	53.6	3,158	15	10.0	Feb. 27, 1929	0	Oct. 8, 1924
Hamilton, Ohio	do.	24	560.00	35.3	3,637	17	43.1	Mar. 26, 1913	-1.7	Oct. 21, 1932
Hazard, Ky.	North Fork	9		96.0	442	20	37.0	May 30, 1927	-4	Aug. 1, 1932
Lock No. 14, Heidelberg, Ky.	Kentucky	17	627.2	249.3	2,639	30	34.4	Mar. 24, 1929	4.8	Nov. 10, 1930
Lock No. 10, Ford, Ky.	do.	28	556.8	176.3	3,948	30	35.1	Mar. 29, 1913	9.1	Sept. 20, 1930
Lock No. 7, Highbridge, Ky.	do.	33	503.00	117.0	5,024	30	34.8	Dec. 26, 1926	4.7	Nov. 24, 1912
Lock No. 4, Frankfort, Ky.	do.	48	462.17	65.0	5,396	31	38.3	Mar. 28, 1913	3.2	Nov. 1, 1906
Bowling Green, Ky.	Barren	10	408.04	29.5	1,875	20	36.5	Jan. 3, 1919	.0	Oct. 18, 1923
Munfordville, Ky.	Green	18	452.20	223	1,707	28	44.48	Dec. 18, 1915	1.7	Oct. 4, 1928
Lock No. 6, Brownsville, Ky.	do.	17	403.26	180.6	2,761	28	52.8	Jan. 10, 1913	6.1	Sept. 10, 1919
Lock No. 4, Woodbury, Ky.	do.	35	373.80	149.5	5,446	33	54.4	Jan. 11, 1913	5.0	Sept. 17, 1902
Lock No. 2, Rumsey, Ky.	do.	35	343.64	62.8	7,681	34	47.9	Mar. 31, 1904	3.7	July 28, 1902
Anderson, Ind.	West Fork	23	825.0	281	428	8	22.9	Mar. 25, 1913	3.8	June 18, 1918
Noblesville, Ind.	do.	20		257	844	14	18.8	Jan. 31, 1916	3.0	Aug. 29, 1914
Indianapolis, Ind.	do.	23	670.7	225	1,590	12	29.5	Mar. 26, 1913	2.2	Aug. 7, 1918
Elliston, Ind.	do.	26	472.94	120	4,470	18	31.3	Mar. 27, 1913	5.5	Jan. 11, 1909
Edwardsport, Ind.	do.	11		30	4,995	12	20.3	Jan. 14, 1930	2.2	Jan. 1, 1931
Seymour, Ind.	East Fork	11	555.63	118	2,292	10	14.5	Jan. 10, 1930		
Williams, Ind.	do.	13	472.66	63.5	4,584	10	20.6	Jan. 14, 1930	-2.0	Jan. 1, 1931
Shoals, Ind.	do.	26	442.25	45	4,828	25	42.2	Mar. 28, 1913	1.7	Dec. 7, 1914
Decker, Ind.	White	20	387.4	20	11,135	16	29.0	Jan. 17, 1930	-1.5	Feb. 13, 1931
Bluffton, Ind.	Wabash	23		42.6	555	10	20.0	Mar. 26, 1913	.7	June 23, 1913
Logansport, Ind.	do.	16		341	3,860	17	25.3	do.	2.2	Dec. 4, 1914
La Fayette, Ind.	do.	20	504.14	308.2	7,324	11	24.0	Jan. 16, 1930	.8	Jan. 14, 1931
Covington, Ind.	do.	7	473.97	268	8,399	16	27.7	Jan. 17, 1930	1.2	Oct. 5, 1928
Terre Haute, Ind.	do.	35	445.78	214.4	12,333	14	31.3	Mar. 27, 1913	-2.0	Feb. 6, 1892
Vincennes, Ind.	do.	17	396.43	127.8	13,840	14	25.2	Jan. 17, 1930	-2	Jan. 23, 1931
Mount Carm										

See footnotes at end of table.

RIVER GAGE READINGS

MISSISSIPPI SYSTEM—OHIO BASIN—Continued

1933	January	February	March	April	May	June	July	August	September	October	November	December	1933	January	February	March	April	May	June	July	August	September	October	November	December
WABASH RIVER AT COVINGTON, IND.													WABASH RIVER AT VINCENNES, IND.												
Wabash—Ohio													Wabash—Ohio												
[Flood stage, 16 feet]													[Flood stage, 14 feet]												
1	15.3	8.7	7.9	14.8	8.2	7.7	3.8	3.0	2.8	13.0	4.1	3.6	1	13.6	8.8	6.7	18.5	5.8	12.1	1.7	1.0	0.4	4.5	1.2	0.7
2	17.7	8.7	7.4	15.8	11.2	7.2	4.0	3.0	2.8	13.4	4.0	3.6	2	13.8	7.6	6.3	18.2	7.3	10.2	1.7	.9	.3	5.7	1.1	.7
3	19.0	8.6	6.8	17.4	13.6	6.8	4.0	3.1	3.0	12.0	4.0	3.6	3	14.0	7.2	5.9	17.6	10.1	8.6	1.6	.8	.3	6.1	1.1	.7
4	19.0	8.4	6.7	17.7	14.5	6.6	4.5	4.3	2.8	10.1	4.0	3.6	4	14.0	6.6	5.0	16.9	11.2	7.3	1.6	.8	.3	6.3	1.1	.7
5	15.9	7.7	6.2	15.9	14.9	6.4	4.7	4.3	3.0	8.6	4.1	3.8	5	13.9	6.0	4.6	16.0	11.4	6.5	1.5	.8	.5	6.0	1.1	.7
6	12.5	7.0	6.2	13.5	14.5	6.2	4.9	4.3	2.9	7.3	3.9	3.8	6	13.5	5.7	4.2	15.6	12.2	5.7	1.5	.8	.5	5.4	1.1	.7
7	10.7	6.4	6.0	13.9	14.6	6.3	4.7	4.3	2.9	6.4	3.8	3.8	7	12.8	5.4	3.9	15.3	12.5	5.3	1.6	.8	.3	4.7	1.1	.7
8	9.7	5.6	6.0	16.1	15.4	6.7	4.4	3.9	2.9	5.5	3.7	3.8	8	12.5	5.5	4.5	15.1	12.8	4.9	1.7	1.3	.3	4.0	1.1	.7
9	9.0	5.0	5.7	16.6	15.6	6.1	4.3	3.4	2.8	5.3	3.7	3.7	9	11.4	5.6	5.7	14.7	12.8	4.5	1.8	1.3	.2	3.3	1.1	.7
10	8.3	5.0	5.3	15.3	16.5	5.8	4.0	3.8	2.8	5.2	3.8	3.9	10	8.9	5.6	5.3	14.3	13.0	4.4	2.1	1.3	.2	2.7	1.0	.7
11	7.9	5.0	5.1	13.3	17.9	5.6	4.1	3.7	2.7	5.2	3.6	3.8	11	8.6	4.2	4.6	14.1	13.1	4.3	1.9	1.4	.2	2.1	.9	.7
12	7.7	5.1	5.1	13.3	21.7	5.4	3.7	3.9	2.7	5.0	3.6	3.8	12	6.3	2.7	3.4	13.4	13.4	3.9	1.6	2.4	.2	2.0	.9	.7
13	7.0	5.0	5.2	11.3	27.6	5.1	3.6	4.4	2.8	5.0	3.6	3.6	13	6.0	2.3	3.0	12.8	13.7	3.9	1.5	1.4	.2	1.9	.8	.7
14	6.8	5.0	5.2	11.3	27.6	5.0	3.5	4.2	2.8	5.0	3.7	3.4	14	5.2	3.2	3.4	12.2	15.2	3.4	1.4	1.3	.1	1.8	.8	.7
15	6.5	4.8	7.4	10.4	27.2	4.9	3.5	4.1	2.8	4.0	3.6	3.4	15	4.8	3.0	5.2	11.0	16.1	3.3	1.3	1.3	.5	1.7	.7	.7
16	6.2	4.8	12.9	10.2	26.3	4.8	3.4	4.0	3.0	4.7	3.5	3.4	16	4.6	3.7	5.9	12.6	18.2	3.0	1.3	1.3	.5	1.6	.7	.7
17	6.1	4.8	12.5	11.1	25.2	4.7	3.4	3.9	2.9	4.5	3.4	3.8	17	4.1	4.3	4.9	13.0	21.4	2.9	1.3	1.3	.5	1.6	.7	.7
18	6.0	4.7	10.7	14.6	23.7	4.6	3.3	3.6	3.0	4.4	3.4	3.8	18	4.0	4.6	8.4	13.0	22.2	2.7	1.2	1.2	.2	1.4	.7	.8
19	7.5	4.7	13.3	17.3	22.0	4.5	3.3	3.5	3.1	4.4	3.4	3.8	19	4.3	4.7	11.0	12.9	23.6	2.6	1.2	1.2	.2	1.4	.7	1.0
20	9.1	8.3	17.2	18.5	19.7	4.5	3.2	3.3	3.0	4.3	3.4	3.8	20	5.6	5.0	12.2	12.7	24.4	2.4	1.1	1.1	.1	1.3	.7	.8
21	13.5	9.1	19.7	18.5	17.2	4.4	3.2	3.3	3.8	4.3	3.4	3.8	21	7.2	5.3	13.2	12.9	24.2	2.4	1.1	1.0	.1	1.3	.7	1.0
22	12.8	9.9	22.9	16.4	14.9	4.3	3.1	3.2	4.1	4.3	4.1	4.6	22	10.1	6.3	13.9	12.9	23.7	2.3	1.1	.9	.1	1.3	.6	.8
23	12.1	9.4	24.9	13.3	12.9	4.2	3.1	3.0	4.1	4.4	4.0	4.6	23	12.2	6.4	14.6	12.7	23.1	2.3	1.0	.7	.1	1.3	.6	.8
24	12.6	8.7	24.3	11.2	11.6	4.1	3.3	2.9	3.9	4.7	3.9	4.8	24	12.7	6.4	15.4	12.5	22.3	2.2	1.0	.7	.5	1.3	.6	.8
25	12.5	8.0	22.2	9.8	10.4	3.9	3.5	2.9	3.8	5.0	3.7	4.7	25	12.9	6.3	16.2	12.4	21.7	2.1	1.0	.6	.4	1.2	.8	.8
26	11.2	7.8	19.9	9.1	9.5	4.2	3.9	2.9	3.5	4.8	3.7	4.6	26	12.5	7.7	16.9	11.9	20.6	2.1	1.0	.6	.9	1.4	.7	1.0
27	10.2	8.0	18.5	8.7	10.0	3.9	3.5	2.9	4.0	4.6	3.6	3.8	27	12.1	8.5	17.9	10.4	19.5	2.0	1.0	.5	1.3	1.7	.7	1.3
28	10.0	8.5	18.3	8.1	9.8	4.1	3.2	3.0	3.1	4.6	3.4	3.8	28	11.5	7.4	18.6	8.5	18.4	1.9	1.0	.5	1.3	1.5	.7	1.2
29	11.1	8.5	18.9	7.7	9.3	3.8	3.1	2.9	12.8	4.4	3.5	3.7	29	10.5	7.4	18.7	7.4	17.2	1.8	1.0	.4	1.4	1.4	.7	.7
30	10.1	8.5	18.4	7.9	9.0	3.8	3.0	2.9	13.8	4.0	3.6	3.7	30	9.6	6.4	18.7	6.4	16.1	1.8	1.0	.4	2.1	1.4	.7	.6
31	9.2	8.5	16.0	8.4	8.4	3.0	2.8	2.8	4.3	4.3	3.6	3.7	31	8.9	6.4	18.5	6.4	14.5	1.8	1.0	.4	2.1	1.4	.7	.6
Mean	10.7	8.1	12.3	13.3	16.1	5.2	3.7	3.5	4.0	6.0	3.7	3.8	Mean	9.7	5.6	9.6	13.3	16.5	4.1	1.3	1.0	.5	2.6	.8	.8
WABASH RIVER AT TERRE HAUTE, IND.													WABASH RIVER AT MOUNT CARMEL, ILL.												
Wabash—Ohio													Wabash—Ohio												
[Flood stage, 14 feet]													[Flood stage, 19 feet]												
1	15.5	7.9	6.3	16.4	6.8	7.6	1.4	0.6	0.3	8.9	1.3	0.7	1	18.7	19.8	10.6	23.1	11.1	18.5	2.6	1.6	1.0	3.5	1.7	1.0
2	15.2	7.5	5.8	15.8	12.1	6.8	1.6	.6	.3	8.6	1.2	.6	2	19.5	19.1	10.5	22.6	10.5	16.7	2.5	1.5	1.0	4.9	1.7	1.0
3	15.0	7.3	5.5	15.4	13.7	6.2	1.6	.6	.3	8.8	1.1	.7	3	20.3	18.2	10.0	22.0	12.8	14.5	2.4	1.5	1.0	5.6	1.0	1.0
4	14.9	6.1	4.8	15.1	13.2	5.6	1.6	.6	.3	8.6	1.1	.7	4	20.7	17.2	8.7	21.0	13.8	11.9	2.3	1.7	1.0	5.7	1.5	1.0
5	15.1	6.6	4.4	15.4	12.8	5.2	2.3	1.2	.3	6.8	1.1	.7	5	21.1	15.6	8.4	21.0	14.6	9.9	2.2	1.4	1.2	5.6	1.5	1.0
6	14.9	5.8	4.1	15.4	13.5	4.8	2.0	1.2	.3	5.4	1.1	.7	6	21.2	12.9	6.7	20.5	15.7	8.6	2.1	1.4	1.0	5.1	1.4	1.0
7	13.0	4.9	4.1	14.9	13.8	4.4	2.4	1.4	.6	4.1	1.0	.9	7	21.3	10.8	6.4	20.0	16.2	7.8	2.6	1.4	1.0	4.5	1.4	1.0
8	10.4	5.0	4.1	14.5	13.8	4.4	2.4	1.2	.5	4.1	1.0	.9	8	21.5	10.4	7.3	19.4	16.5	7.2	2.6	1.4	1.0	3.9	1.4	1.0
9	8.6	(a) (d)	4.2	14.2	14.1	4.4	1.8	1.2	.4	2.7	.9	.9	9	21.5	10.4	9.4	19.3	16.7	6.7	2.7	1.4	.9	3.3	1.4	1.0
10	7.6	3.0	3.5	14.2	13.9	4.2	1.8	1.2	.3	2.7	.8	.8	10	21.0	10.4	10.2	19.0	17.0	6.3	2.7	1.4	.9	3.3	1.4	1.0
11	6.7	2.0	3.1	14.0	13.7	4.0	1.6	1.4	.3	2.2	.8	.8	11	20.0	10.2	10.5	19.0	17.3	6.0	2.6	2.0	1.0	2.8	1.4	1.0
12	6.1	2.0	2.8	13.1	16.3	3.8	1.5	1.3	.2	2.2	.7	.9	12	18.4	9.1	10.0	19.0	17.4	5.8	2.3	2.6	1.0	2.5	1.4	1.0
13	5.5	3.4	2.8	12.4	17.5	3.6	1.5	1.3	.2	2.1	.7	.9	13	15.8	8.4	9.3	18.6	17.3	5.2	2.1	2.6	1.0	2.3	1.4	1.0
14	5.0	4.1	3.4	12.0	21.1	3.0	1.2	1.3	.4	2.1	.7	.7	14	12.5	8.1	9.2	18.1	19.3	4.8	2.0	2.8	1.1	2.2	1.4	1.0
15	4.7	4.9	3.7	10.4	24.3	2.8	1.1	1.3	.4	1.9	.7	.7	15	9.9	8.2	9.8	17.6	20.3	4.5	2.0	2.9	1.1	2.1	1.4	1.0
16	4.3	4.5	3.2	10.4	24.9	2.6	1.1	1.3	.3	1.6	.6	.6	16	8.5	8.1	10.8	18.0	21.5	4.2	2.0	2.6	1.1	2.0	1.3	1.0
17	4.2	4.6	3.7	12.0	24.0	2.6	1.0	1.3	.3	1.6	.6	.6	17	8.1	8.1	11.2	18.5	22.8	4.0	1.9	2.3	1.3	2.0	1.3	1.0
18	4.1	4.7	3.2	12.5	22.9	2.4	.9	1.3	.3	1.6	.6	.6	18	7.7	8.1	11.9	18.6	24.0	3.8	1.8	2.0	1.1	1.9	1.1	1.0
19	4.0	4.5	3.0	14.1	21.6	2.4	.9	1.3	.3	1.6	.6	1.0	19	8.0	8.1	14.4	18.9	25.0	3.7	1.7	1.8	1.0	1.9	1.1	1.9
20	6.9	7.4	15.4	14.5	20.2	2.4	.9	.8	.3	1.6	.6	1.0	20	9.5	8.3	16.3	19.1	25.9	3.5	1.6	1.7	1.0	1.7	1.1	2.3
21	8.9	7.5	16.8	14.7	19.2	2.3	.7	.8	.3	1.4	.6	1.0	21	10.0	9.0	17.7	19.								

Station	River	Miscellaneous data	Gage readings	Station	River	Miscellaneous data	Gage readings
		Page	Page			Page	Page
McMinnville, Oreg.	Yamhill	9	158	Phillippi, W. Va.	Tygart	6	77
Macon, Ga.	Ocmulgee	4	39	Phillipsburg, N. J.	Delaware	3	23
Madison, Ark.	St. Francis	8	135	Phoenix, Ariz.	Salt	9	---
Manila, Ark.	Big Lake Outlet	8	134	Piedra, Calif.	Kings	9	---
Mankato, Minn.	Minnesota	4	53	Pierre, S. Dak.	Missouri	5	71
Marble Falls, Tex.	Colorado	9	145	Pikeville, Ky.	Levisa Fork	6	86
Marcus, Wash.	Columbia	9	160	Pine Bluff, Ark.	Arkansas	8	129
Marietta, Ohio.	Muskingum	6	82	Piqua, Ohio	Miami	6	91
Do.	Ohio	7	110	Pittsburgh, Pa.	Ohio	7	108
Marked Tree, Ark.	St. Francis	8	135	Pleasant Hill, Ohio	Stillwater	6	90
Markland, Ind.	Ohio	7	115	Point Pleasant, W. Va.	Ohio	7	111
Mars Bluff Bridge, S. C.	Peedee	4	34	Poplar Bluff, Mo.	Black	7	120
Marshall, N. C.	French Broad	7	103	Portage, Wis.	Wisconsin	5	55
Marysville, Calif.	Yuba	9	153	Port Jervis, N. Y.	Delaware	3	23
Mauch Chunk, Pa.	Lehigh	3	22	Portland, Mich.	Grand	3	---
Mayos Bar Lock, Ga.	Coosa	4	46	Portland, Oreg.	Willamette	9	160
Mechanicville, N. Y.	Hudson	3	21	Portsmouth, Ohio	Ohio	7	113
Mehama, Oreg.	North Santiam	9	158	Poston, S. C.	Peedee	4	34
Meldrim, Ga.	Ogeechee	4	39	Prairie du Chien, Wis.	Mississippi	5	61
Melville, La.	Atchafalaya	8	140	Prospect, Ohio	Scioto	6	87
Memphis, Tenn.	Mississippi	8	136	Pueblo, Colo.	Arkansas	8	126
Mendota, Va.	Holston-North Fork	7	101	Quincy, Ill.	Mississippi	5	64
Mercedes, Tex.	Rio Grande	9	149	Radford, Va.	New	6	84
Merrill, Iowa	Floyd	5	---	Ralston, Okla.	Arkansas	8	127
Merrill, Miss.	Pascagoula	4	51	Randolph, Va.	Roanoke	3	30
Merrill, Wis.	Wisconsin	4	54	Ravenswood, W. Va.	Ohio	7	111
Miamisburg, Ohio	Miami	6	91	Reading, Pa.	Schuykill	3	22
Middletown, Ohio	do.	6	92	Reads, Minn.	Mississippi	5	60
Midland, Mich.	Tittabawassee	3	---	Red Bluff, Calif.	Sacramento	9	154
Midville, Ga.	Ogeechee	4	38	Red Wing, Minn.	Mississippi	5	60
Miles City, Mont.	Yellowstone	5	---	Renovo, Pa.	Susquehanna-West Branch	3	24
Milledgeville, Ga.	Oconee	4	40	Resaca, Ga.	Oostanaula	4	46
Millers Ferry, Ala.	Alabama	4	48	Reserve, La.	Mississippi	8	139
Milstead, Ala.	Tallahpoosa	4	47	Rhineland, Wis.	Wisconsin	4	53
Moline, Ill.	Rock	5	55	Richmond, Va.	James	3	29
Moncure, N. C.	Haw	4	32	Rimini, S. C.	Santee	4	36
Monroe, La.	Ouachita	8	130	Ringo Crossing, Tex.	Sulphur	8	131
Montezuma, Ga.	Flint	4	43	Riogrande, Tex.	Rio Grande	9	149
Montgomery, Ala.	Alabama	4	48	Rio Vista, Calif.	Sacramento	9	155
Monticello, Miss.	Pearl	4	52	River Falls, Ala.	Conecuh	4	45
Moorhead, Minn.	Red of North	3	15	River Junction, Fla.	Apalachicola	4	43
Morgan City, La.	Atchafalaya	8	140	Riverside, Tex.	Trinity	8	143
Morgantown, W. Va.	Monongahela	6	79	Riverton, Va.	Shenandoah	3	27
Morrilton, Ark.	Arkansas	8	129	Riverton Lock, Ala.	Tennessee	7	108
Morris, Ill.	Illinois	5	57	Rock Island, Tenn.	Caney Fork	7	99
Mosgrove, Pa.	Allegheny	6	76	Rockland, Tex.	Neches	8	141
Mount Carmel, Ill.	Wabash	6	98	Rockwood, Tenn.	Tennessee	7	105
Mount Holly, N. C.	Catawba	4	36	Rocky Mount, N. C.	Tar	3	31
Mount Pleasant, Mich.	Chippewa	3	---	Rogersville, Tenn.	Holston	7	102
Mud, Tex.	Colorado	9	145	Rome, Ga.	Oostanaula	4	46
Munfordville, Ky.	Green	6	94	Rosenberg, Tex.	Brazos	8	145
Muscataine, Iowa	Mississippi	5	63	Rowlesburg, W. Va.	Cheat	6	78
Naples, Tex.	Sulphur	8	131	Rumsey, Ky.	Green	6	95
Nashville, Tenn.	Cumberland	7	100	Sacramento, Calif.	Sacramento	9	155
Natchez, Miss.	Mississippi	8	138	Sageeyah, Okla.	Verdigris	8	123
Natrona, Pa.	Allegheny	6	77	Saginaw, Mich.	Saginaw	3	17
Nebraska City, Nebr.	Missouri	5	72	Saginaw, Oreg.	Willamette-Coast Fork	9	157
Neosho Rapids, Kans.	Neosho	8	124	St. Charles, Mo.	Missouri	5	74
Neuse, N. C.	Neuse	4	32	St. Francis, Ark.	St. Francis	8	134
New Braunfels, Tex.	Gaudalupe	9	146	St. John, Calif.	Stony Creek	9	---
Newburgh, Ind.	Ohio	7	116	St. Joseph, Mo.	Missouri	5	73
Newcomerstown, Ohio	Tuscarawas	6	81	St. Louis, Mo.	Mississippi	5	65
New Madrid, Mo.	Mississippi	8	136	St. Marys, W. Va.	Ohio	7	110
New Orleans, La.	do.	8	139	St. Paul, Minn.	Mississippi	5	60
Newport, Ark.	White	7	122	St. Thomas, Mo.	Osage	5	70
Newport, Pa.	Juniata	3	25	Salem, Oreg.	Willamette	9	159
Newport, Tenn.	Pigeon	7	102	Salida, Colo.	Arkansas	8	---
Newport, Wash.	Clark Fork	9	156	Saltsburg, Pa.	Kiskiminitas	6	75
New Richmond, Ohio	Ohio	7	113	Samson, Ala.	Pea	4	44
New River, Tenn.	New	6	99	Sanish, N. Dak.	Missouri	5	---
Newton, Ala.	Choctawhatchee	4	44	Sapinero, Colo.	Gunnison	9	---
Nicolaus, Calif.	Feather	9	153	Savannah, Tenn.	Tennessee	7	108
Noblesville, Ind.	White-West Fork	6	95	Schenectady, N. Y.	Mohawk	3	---
Norcross, Ga.	Chattahoochee	4	42	Schenley, Pa.	Allegheny	6	76
North Platte, Nebr.	North Platte	5	66	Selma, Ala.	Alabama	4	48
Do.	South Platte	5	66	Seymour, Ind.	White-East Fork	6	96
Okay, Okla.	Verdigris	8	---	Sharon, Pa.	Shenango	6	80
Olean, N. Y.	Allegheny	6	75	Shawneetown, Ill.	Ohio	7	117
Omaha, Nebr.	Missouri	5	72	Sherburne, N. Y.	Chenango	3	23
Orange, Tex.	Sabine	8	141	Shields, Mich.	Tittabawassee	3	---
Oregon City, Oreg.	Willamette	9	150	Shoals, Ind.	White-East Fork	6	96
Oroville, Calif.	Feather	9	153	Shreveport, La.	Red	8	133
Osceola, Mo.	Osage	5	69	Shubuta, Miss.	Chickasawhay	4	51
Oswego, Kans.	Neosho	8	124	Sidney, Ohio	Miami	6	90
Ottumwa, Iowa	Des Moines	5	57	Simmesport, La.	Atchafalaya	8	140
Overton, Nebr.	Platte	5	---	Siox City, Iowa	Missouri	5	72
Owensboro, Ky.	Ohio	7	116	Smithfield, N. C.	Neuse	4	32
Owosso, Mich.	Shiawassee	3	---	Smithville, Tex.	Colorado	9	146
Ozark, Ark.	Arkansas	8	128	Solomon, Kans.	Smoky Hill	5	67
Ozark Beach, Mo.	White	7	121	Springbank, Ark.	Red	8	133
Pacific, Mo.	Meramec	5	59	Springdale, Pa.	Allegheny	6	77
Paducah, Ky.	Ohio	7	118	Springfield, Mass.	Connecticut	3	20
Paintsville, Ky.	Levisa Fork	6	86	Springfield, Ohio	Mad	6	90
Paonia, Colo.	Gunnison-North Fork	9	---	Steelville, Mo.	Meramec	5	59
Parker, Ariz.	Colorado	9	151	Sunbury, Pa.	Susquehanna	3	26
Parkersburg, W. Va.	Ohio	7	110	Swan Lake, Miss.	Tallahatchie	8	135
Parkers Landing, Pa.	Allegheny	6	76	Sycamore Island, Md.	Potomac	3	28
Parkin, Ark.	St. Francis	8	135	Tarboro, N. C.	Tar	4	31
Pearl, Ill.	Illinois	5	58	Terre Haute, Ind.	Wabash	6	98
Pearl River, La.	West Pearl	4	52	The Dalles, Oreg.	Columbia	9	161
Peizer, S. C.	Saluda	4	34	Three Rivers, Tex.	Nnece	9	147
Pensacola, Okla.	Neosho	8	---	Tiffin, Ohio	Sandusky	3	18
Peoria, Ill.	Illinois	5	58	Tippecanoe City, Ohio	Miami	6	91
Perkins, Okla.	Cimarron	7	123	Tomahawk, Wis.	Spirit	4	53
Peru, Ill.	Illinois	5	57	Topeka, Kans.	Kansas	5	68

UNITED STATES DEPARTMENT OF AGRICULTURE
WEATHER BUREAU, WILLIS R. GREGG, Chief

DAILY RIVER STAGES

AT RIVER GAGE STATIONS ON THE
PRINCIPAL RIVERS OF THE
UNITED STATES

REFERENCE
DO NOT CIRCULATE

VOLUME XXXII
1934

Community Affairs File

COMPILED BY MONTROSE W. HAYES
PRINCIPAL METEOROLOGIST

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INTRODUCTION

This volume, containing the daily river stages for 1934, is the thirty-second of a series of Daily River Stages on the Principal Rivers of the United States, the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

- Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.
- II. Stages of the Mississippi River and of its Principal Tributaries, except the Ohio River, 1860 to 1889.
- III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.

DAILY STAGES AT RIVER GAGE STATIONS ON THE PRINCIPAL RIVERS OF THE UNITED STATES

Volume IV. 1890 to 1892.	Volume XI. 1911 and 1912.	Volume XVIII. 1920.	Volume XXV. 1927.
V. 1893 to 1895.	XII. 1913 and 1914.	XIX. 1921.	XXVI. 1928.
VI. 1896 to 1899.	XIII. 1915.	XX. 1922.	XXVII. 1929.
VII. 1900 to 1904.	XIV. 1916.	XXI. 1923.	XXVIII. 1930.
VIII. 1905 and 1906.	XV. 1917.	XXII. 1924.	XXIX. 1931.
IX. 1907 and 1908.	XVI. 1918.	XXIII. 1925.	XXX. 1932.
X. 1909 and 1910.	XVII. 1919.	XXIV. 1926.	XXXI. 1933.

Volumes XVI to XXXII can be bought from the Superintendent of Documents, Washington, D. C.; volumes I to XV are out of print and cannot be supplied.

The river stages are the vertical distances, in feet and tenths, of the water surface above or below the zero of the gage. The zero has, as a rule, been set at or near the lowest known water.

Gage readings are usually made at 8 a. m., seventy-fifth meridian time, east of the Continental Divide, and at 7 a. m., local time, west of the divide.

Extreme stages for a month, not observed at the regular time for reading the gage, are printed as a note at the foot of the table or page. This practice was begun in 1907.

In some cases the zero planes of gages have been changed, either through accident or through necessary removals. The stations at which changes have occurred are given in a table headed "Corrigenda", and the corrections required to reduce previous readings to the zero now in use are also given in the table if they have not been previously published.

The country is divided into districts, and each district has a designated center at which the administrative and forecasting work is carried on. The following table shows the centers, and their districts. Superior figure (1) opposite a center indicates that stage forecasts are made daily throughout the year, and (2) indicates that stage forecasts are made daily during seasons of navigation and in times of flood. At those centers not bearing a reference forecasts are made only during times of flood.

ADMINISTRATIVE AND FORECASTING CENTERS AND THEIR DISTRICTS

Albany, N. Y.	Hudson River and tributaries.
Albuquerque, N. Mex.	Pecos River in New Mexico; Rio Grande and tributaries at and above El Paso, Tex.; Canadian River and tributaries in New Mexico.
Atlanta, Ga.	Apalachicola River and tributaries.
Augusta, Ga.	Savannah and Ogeechee Rivers and tributaries.
Binghamton, N. Y.	Susquehanna River and tributaries at and above Binghamton, N. Y.
Bismarck, N. Dak.	Missouri River and tributaries at and above Bismarck, N. Dak.
Brownsville, Tex.	Rio Grande below Laredo, Tex.
Cairo, Ill. ¹	Ohio River below the mouth of the Wabash; Mississippi River from and including Cape Girardeau, Mo., to and including New Madrid, Mo.; Tennessee River and tributaries below Decatur, Ala.
Charleston, S. C.	Rivers of northeastern South Carolina.
Chattanooga, Tenn. ¹	Tennessee River and tributaries from below Knoxville, Tenn., to and including Decatur, Ala.
Cincinnati, Ohio ¹	Ohio River and southern tributaries from and including the mouth of the Kanawha, to and including the mouth of the Little Kentucky; the northern tributaries of the Ohio from Dam No. 31 to a point opposite the mouth of the Little Kentucky.
Columbia, S. C.	Santee River and tributaries.
Columbus, Ohio.	The Sandusky River; the northern tributaries of the Ohio River from Dam No. 17 to Dam No. 31.
Dallas, Tex. ¹	Trinity River and tributaries above Long Lake, Tex.
Davenport, Iowa ²	Mississippi River and tributaries from below Dubuque, Iowa, to and including the mouth of the Iowa, but not including Keithsburg, Ill.
Del Rio, Tex.	Rio Grande from below El Paso to and including Laredo, Tex., and the Pecos River in Texas.
Denver, Colo.	Colorado River and tributaries, except the Gila; Arkansas River and tributaries in Colorado.
Des Moines, Iowa.	Des Moines River and tributaries above Eldon, Iowa.
Dubuque, Iowa ²	Mississippi River and tributaries from below La Crosse, Wis., to and including Dubuque, Iowa; the Wisconsin River and tributaries.
Evansville, Ind. ¹	Ohio River and tributaries from below Hawesville, Ky., to the mouth of, but not including the Wabash.
Fort Smith, Ark.	Arkansas River and tributaries (except the Neosho in Kansas, and the Canadian) from the Kansas-Oklahoma line to and including Fort Smith, Ark.
Fort Wayne, Ind.	Maumee River and tributaries.
Fresno, Calif.	San Joaquin River and tributaries above the mouth of the Tuolumne.
Grand Rapids, Mich.	Grand River and tributaries below Grand Ledge, Mich.
Harrisburg, Pa.	Susquehanna River and tributaries below Binghamton, N. Y.

Hartford, Conn.....	Connecticut River and tributaries.
Houston, Tex. ¹	Sabine, Neches, and Brazos Rivers; Trinity River at and below Long Lake, Tex.
Indianapolis, Ind.....	Wabash River and tributaries.
Kansas City, Mo. ¹	Missouri River and eastern tributaries from the mouth of the Platte to and including Lexington, Mo.
Keokuk, Iowa.....	Mississippi River and tributaries (except the Iowa and the Des Moines above Eldon, Iowa), from and including Keithsburg, Ill., to and including Louisiana, Mo.
Knoxville, Tenn. ¹	Tennessee River and tributaries at and above Knoxville, Tenn.
La Crosse, Wis. ²	Mississippi River and tributaries from below St. Paul, Minn., to and including La Crosse, Wis.
Lansing, Mich.....	Grand River and tributaries at and above Grand Ledge, Mich.; Saginaw River and tributaries.
Little Rock, Ark. ¹	Arkansas River and tributaries below Fort Smith, Ark.; White River and tributaries, except the Black in Missouri; Ouachita River and tributaries in Arkansas.
Louisville, Ky. ¹	Ohio River and tributaries from mouth of the Kentucky to and including Hawesville, Ky.
Macon, Ga.....	Altamaha River and tributaries.
Memphis, Tenn. ¹	Mississippi River from below New Madrid, Mo., to the mouth of the White; St. Francis River and tributaries.
Meridian, Miss.....	Pascagoula and Pearl Rivers and tributaries.
Minneapolis, Minn. ²	Mississippi River and tributaries at and above St. Paul, Minn.
Mobile, Ala. ¹	Tombigbee River and tributaries.
Montgomery, Ala. ¹	Alabama River and tributaries.
Moorhead, Minn.....	Red River of the North and tributaries below the Canadian line.
Nashville, Tenn. ¹	Cumberland River and tributaries.
New Orleans, La. ¹	Mississippi River below the mouth of the Big Black; Red River below Shreveport, La.; Ouachita and Black Rivers and tributaries in Louisiana; Atchafalaya River.
Oklahoma City, Okla.....	Canadian River and tributaries east of the eastern boundary of New Mexico.
Omaha, Nebr.....	Missouri River and tributaries from below Sioux City, Iowa, to and including the mouth of the Platte.
Parkersburg, W. Va. ¹	Ohio River and southern tributaries from below Dam No. 13 to and including Point Pleasant, W. Va.
Pensacola, Fla.....	Escambia and Choctawhatchee Rivers and tributaries.
Philadelphia, Pa.....	Delaware River and tributaries.
Phoenix, Ariz.....	Gila River and tributaries.
Pittsburgh, Pa. ¹	Ohio River and tributaries at and above Dam No. 13.
Portland, Oreg. ¹	Columbia River and tributaries.
Raleigh, N. C.....	The rivers, and their tributaries, that enter the Atlantic Ocean on the North Carolina coast.
Richmond, Va.....	James River and tributaries.
Sacramento, Calif.....	Rivers in the central valleys of California, except the San Joaquin above the mouth of the Tuolumne.
St. Louis, Mo. ¹	Mississippi River and its tributaries from Louisiana to Cape Girardeau, Mo., but not including either terminal (see Kansas City and Topeka centers for Missouri and Osage limits); Black River in Missouri.
San Antonio, Tex.....	Colorado, Guadalupe, Nueces, and San Antonio Rivers and tributaries.
Shreveport, La. ¹	Red River and tributaries at and above Shreveport, La.
Sioux City, Iowa.....	Missouri River and tributaries from below Bismarck, N. Dak., to and including Sioux City, Iowa.
Topeka, Kans.....	Kansas River and tributaries; Neosho and Osage Rivers and tributaries in Kansas.
Vicksburg, Miss. ¹	Mississippi River from the mouth of the White to the mouth of the Big Black; Yazoo and Big Black Rivers and tributaries.
Washington, D. C.....	Potomac River and tributaries.
Wichita, Kans.....	Arkansas River and tributaries in Kansas.

River stations, arranged by drainage areas, and miscellaneous information pertaining thereto—Continued

Station	River	Length of record	Elevation of gage zero above mean sea level	Distance of gage above mouth of river	Drainage area above gage	Flood stage	Extreme stages from gage readings			
							Highest	Date	Lowest	Date
MISSISSIPPI SYSTEM—continued										
Ohio Basin—Continued										
		Years	Feet	Miles	Sq. miles	Feet	Feet		Feet	
Dover, Ohio	Tuscarawas	28		60	1,405	9	16.1	Mar. 28, 1913	.0	Dec. 1, 1917
Newcomertown, Ohio	do	7	780.03	23	2,432	16	18.6	Mar. 17, 1933	3.8	July 29, 1934
Coshocton, Ohio	do	27	733.52	.2	4,843	11	30.5	Mar. 26, 1913	1.2	Sept. 9, 1932
Lock No. 10, Zanesville, Ohio	Muskingum	44	665.3	75.8	6,840	25	51.8	Mar. 27, 1913	4.3	Oct. 14, 1895
Lock No. 7, McConnellsville, Ohio	do	22	635.0	48.2	7,411	22	49.1	do	3.4	Oct. 9, 1916
Lock No. 4, Beverly, Ohio	do	29	602.6	24.7	7,937	25	46.5	Mar. 28, 1913	2.6	Aug. 22, 1910
Lock No. 3, Lowell, Ohio	do	6	588.1	13.9	7,978	425	28.2	Mar. 20, 1933	5.8	Aug. 12, 1930
Lock No. 1, Marietta, Ohio	do	21	575.6	.2	8,038	28	37.3	Jan. 24, 1927	7.9	Aug. 19, 1930
Glenville, W. Va.	Little Kanawha	34	697.79	103.0	365	23	33.6	Nov. 16, 1926	-.9	Nov. 10, 1908
Creston, W. Va.	do	34	621.71	48.0	1,214	20	32.0	Mar. 14, 1918	-3.0	Nov. 4, 1906
Athens, Ohio	Hocking	19	615.56	31.6	944	17	21.9	Apr. 16, 1922	2.2	Oct. 11, 1930
Camden on Gauley, W. Va.	Gauley	19	2,003.28	71	238	20				
Ivanhoe, Va.	New	18	1,941.9	194	1,311	15	20.0	Oct. 2, 1929	.0	Aug. 1, 1917
Radford, Va.	do	39		145	2,761	14	32.3	July 16, 1916	-2.0	Nov. 3, 1904
Glenyn, Va.	do	9	1,490.0	95	3,859	11	14.8	Oct. 3, 1929	.1	Sept. 29, 1926
Hinton, W. Va.	do	48	1,351.64	63	6,288	14	20.2	Sept. 13, 1878	.7	Sept. 27, 1894
Clay, W. Va.	Elk	20	676.60	53.2	1,016	18	32.4	Mar. 14, 1918	.1	Sept. 11, 1925
Kanawha Falls, W. Va.	Kanawha	21	622.88	95.0	8,415	25	31.7	July 17, 1916	-.9	Oct. 29, 1921
Charleston, W. Va.	do	62	558.65	58.0	10,495	34	41.6	Sept. 14, 1878	-.1	Sept. 15, 1881
Lock No. 6, S. Charleston, W. Va.	do	48	547.90	54.0	10,387	42	48.9	Mar. 5, 1899	1.65	Aug. 26, 1893
Logan, W. Va.	Guyandot	13	639.08	81.4	859	20	27.0	Jan. 28, 1918	.0	Oct. 10, 1923
Wayne, W. Va.	Twelvepole Creek	10	604.74	28.8	305	25	28.3	June 30, 1928	.3	July 16, 1930
Williamson, W. Va.	Tug Fork	28		57.3	941	38	38.1	Jan. 20, 1918	-.8	Oct. 2, 1908
Kermit, W. Va.	do	15	574.77	35.0	1,268	38	38.8	do	1.4	Oct. 4, 1920
Pikeville, Ky.	Levisa Fork	27	635.5	88.5	1,225	35	49.0	Jan. 28, 1918	.0	Oct. 23, 1923
Paintsville, Ky.	do	7	566.67	38.5			27.18	Nov. 19, 1929	1.06	July 23, 1930
Lock No. 3, Louisa, Ky.	Big Sandy	46	510.81	26.6	3,821	45	48.0	Mar. 6, 1899	.7	Nov. 18, 1884
Delaware, Ohio	Oleantangy	25	848.58	26.2	415	9	25.5	Mar. 25, 1913	-.1	Dec. 15, 1934
La Rue, Ohio	Scioto	19	910.19	196.2	255	11	15.0	Mar. 20, 1927	1.9	July 31, 1916
Prospect, Ohio	do	28	891.72	172.2	554	10	15.0	Mar. 22, 1927	.2	Oct. 2, 1910
Bellpoint, Ohio	do	21	840.0	156.3	770	9	12.2	Mar. 27, 1916	1.2	Aug. 22, 1921
Columbus, Ohio	do	37	700.03	131.9	1,613	22	22.9	Mar. 25, 1913	-.8	July 27, 1923
Circleville, Ohio	do	23	643.03	100.4	3,217	14	28.2	Mar. 26, 1913	1.8	Aug. 17, 1925
Chillicothe, Ohio	do	27	594.02	70.4	3,847	16	39.8	do	1.0	Sept. 27, 1916
Kings Mills, Ohio	Little Miami	10	587.10	28.1	1,048	17	33.7	do	.5	July 3, 1914
Cynthiana, Ky.	South Fork	18		46	641	20	22.6	Dec. 24, 1921	.6	July 26, 1921
Farmers, Ky.	Licking	18	635.70	172	782	25	31.1	Feb. 9, 1918	1.2	Aug. 17, 1917
Falmouth, Ky.	do	48	512.2	51.2	2,267	28	39.1	Dec. 25, 1921	-.1	Sept. 6, 1930
Pleasant Hill, Ohio	Stillwater	19	846.60	29.2	502	13	16.4	Feb. 26, 1929	.7	Aug. 6, 1934
Springfield, Ohio	Mad	21	881.95	23.6	477	11	15.1	do	1.4	July 29, 1934
Brookville, Ind.	Whitewater	17	595.7	27	1,230	20	25.4	Feb. 25, 1929	.3	July 26, 1933
Sidney, Ohio	Miami	21	924.74	134.8	545	12	14.2	Mar. 21, 1927	.1	Sept. 1, 1924
Piqua, Ohio	do	24	844.00	122.1	850	17	29.1	Mar. 25, 1913	.8	July 17, 1934
Tippecanoe City, Ohio	do	12	788.77	104.5	955	25	11.8	Mar. 21, 1927	-1.5	July 31, 1934
Dayton, Ohio	do	42	721.01	84.5	2,515	21	31.7	Mar. 25, 1913	-.1	Sept. 5, 1925
Miamisburg, Ohio	do	12	678.44	68.6	2,719	22	19.0	Feb. 27, 1929	-.3	Oct. 17, 1929
Franklin, Ohio	do	12	658.41	61.3	2,731	16	16.1	May 15, 1933	.0	Aug. 3, 1934
Middletown, Ohio	do	12	624.65	53.6	3,158	15	19.0	Feb. 27, 1929	.0	Oct. 8, 1924
Hamilton, Ohio	do	25	560.00	35.3	3,637	17	43.1	Mar. 26, 1913	-1.7	Oct. 21, 1932
Hazard, Ky.	North Fork	10		96.0	442	20	37.0	May 30, 1927	-.4	Aug. 1, 1932
Lock No. 14, Heidelberg, Ky.	Kentucky	18	627.2	249.3	2,639	30	34.4	Mar. 24, 1929	4.8	Nov. 10, 1930
Lock No. 10, Ford, Ky.	do	29	556.8	176.3	3,948	30	35.1	Mar. 29, 1913	9.1	Sept. 20, 1930
Lock No. 7, Highbridge, Ky.	do	34	503.66	117.0	5,024	30	34.8	Dec. 26, 1926	4.7	Nov. 24, 1912
Lock No. 4, Frankfort, Ky.	do	49	462.17	65.0	5,396	31	38.3	Mar. 28, 1913	3.2	Nov. 1, 1908
Bowling Green, Ky.	Barren	11	408.04	29.5	1,875	20	36.5	Jan. 3, 1919	.0	Oct. 18, 1923
Lock No. 6, Brownsville, Ky.	Green	18	403.26	180.6	2,751	28	52.8	Jan. 10, 1913	6.1	Sept. 10, 1919
Lock No. 4, Woodbury, Ky.	Barren	36	373.80	149.5	5,446	33	54.4	Jan. 11, 1913	5.0	Sept. 17, 1902
Lock No. 2, Runsey, Ky.	do	36	343.64	62.8	7,681	34	47.9	Mar. 31, 1904	3.7	July 28, 1902
Anderson, Ind.	West Fork	24	825.0	281	428	8	22.9	Mar. 25, 1913	3.8	June 18, 1918
Noblesville, Ind.	do	21		257	844	14	18.8	Jan. 31, 1916	3.0	Aug. 29, 1914
Indianapolis, Ind.	do	24	670.7	225	1,590	12	29.5	Mar. 26, 1913	2.2	Aug. 7, 1918
Elliston, Ind.	do	27	472.94	120	4,470	18	31.3	Mar. 27, 1913	5.5	Jan. 11, 1909
Edwardsport, Ind.	do	12		30	4,995	12	20.3	Jan. 14, 1930	2.2	Jan. 1, 1931
Seymour, Ind.	East Fork	12	555.53	118	2,292	10	14.5	Jan. 10, 1930		
Williams, Ind.	do	14	472.56	63.5	4,584	10	20.6	Jan. 14, 1930	-2.0	do
Shoals, Ind.	do	27	442.25	45	4,828	25	42.2	Mar. 28, 1913	1.7	Dec. 7, 1914
Decker, Ind.	White	21	387.4	20	11,135	16	29.0	Jan. 17, 1930	-1.5	Feb. 13, 1931
Bluffton, Ind.	Wabash	24		42.6	555	10	20.0	Mar. 26, 1913	.7	June 23, 1913
Logansport, Ind.	do	17		341	3,860	17	25.3	do	2.2	Dec. 4, 1914
La Fayette, Ind.	do	21	504.14	308.2	7,324	11	24.0	Jan. 16, 1930	.6	July 28, 1934
Covington, Ind.	do	8	473.97	268	8,399	16	27.7	Jan. 17, 1930	1.2	Oct. 5, 1928
Terre Haute, Ind.	do	36	445.78	214.4	12,333	14	31.3	Mar. 27, 1913	-2.0	Feb. 6, 1892
Vincennes, Ind.	do	18	396.43	127.8	13,840	14	25.2	Jan. 17, 1930	-.8	June 22, 1934
Mount Carmel, Ill.	do	51	371.46	94.5	28,506	19	31.0	Mar. 30, 1913	-.2	Nov. 7, 1895
New Harmony, Ind.	do	1	353.20	51		15				
New River, Tenn.	New	27	1,096.0	8.2	367	18	41.2	Mar. 23, 1929	-.3	Sept. 12, 1925
Rock Island, Tenn.	Caney Fork	24	647.41	80	1,656	30	38.6	Mar. 23, 1929	-1.5	Oct. 19, 1927
Williamsburg, Ky.	Cumberland	27	892.40	592.7	1,673	19	30.4	Mar. 25, 1929	-2.5	Sept. 16, 1919
Burnside, Ky.	do	50	585.60	518.4	4,949	50	69.4	Mar. 24, 1929	-1.6	Nov. 8, 1895
Celina, Tenn.	do	31	489.47	383.1	7,323	28	57.11	Dec. 29, 1926	-.2	Oct. 6, 1911
Carthage, Tenn.	do	50	437.87	308.4	10,754	40	58.7	Dec. 30, 1926	-.4	Nov. 16, 1902
Nashville, Tenn.	do	61	368.06	192.6	12,878	40	56.2	Jan. 1, 1927	-.1	Sept. 14, 1887
Clarksville, Tenn.	do	34	330.95	127.0	14,504	46	60.0	Jan. 2, 1927	-1.0	Sept. 18, 1913
Lock F, Eddyville, Ky.	do	17	289.61	43.6	17,500	50	68.5	Jan. 5, 1927	-.7	Oct. 14, 1894
Mendota, Va.	North Fork	29	1,331.20	38.3	530	8	17.5	June 14, 1907	.3	Oct. 13, 1933
Elizabethton, Tenn.	Watauga	25	1,486.03	24.4	665	14	15.6	July 15, 1916	1.0	July 28, 1926
Bluff City, Tenn.	South Fork	35	1,368.09	34.2	810	12	15.0	May 22, 1901	-.2	Dec. 1, 1903
Rogersville, Tenn.	Holston	33	1,057.04	103.8	3,033	13				
Newport, Tenn.	Pigeon	28	1,040.03	6.9	630	6	17.0	Apr. 2, 1920	.2	Sept. 1, 1930
Embsville, Tenn.	Nolichucky	15	1,513.04	77	804	10	13.8	Aug. 16, 1916	1.6	Sept. 8, 1925
Asheville, N. C.	French Broad	32	1,958.9	147.3	949	6	25.6	July 16, 1916	.0	Nov. 1, 1904
Marshall, N. C.	do	17		125.2	1,361	10	14.6	Aug. 16, 1928	-.4	Nov. 26, 1922
Dandridge, Tenn.	do	30	902.83	46.5	4,428	12	22.0	July 17, 1916	-.6	Sept. 9, 1925
McGhee, Tenn.	Little Tennessee	30	760.07	18.8	2,447	18	30.5	Apr. 2, 1920	1.0	Nov. 29, 1904
Clinton, Tenn.	Clinch	51	776.61	59.5	2,983	25	45.0	Mar. 31, 1886	.0	Dec. 4, 1883
Charleston, Tenn.	Hwassee	52	665.53	18.8	2,335	22	34.0	do	.1	Sept. 21, 1925
Fayetteville, Tenn.	Elk	9	641.27	88.4	856	14				
Knoxville, Tenn.	Tennessee	52	797.59	648.1	8,935	20	36.1	Mar. 1, 1902	-1.9	Sept. 10, 1925

See footnotes at end of table.

MISSISSIPPI SYSTEM—OHIO BASIN—Continued

1934	January	February	March	April	May	June	July	August	September	October	November	December	1934	January	February	March	April	May	June	July	August	September	October	November	December
WABASH RIVER AT COVINGTON, IND.													WABASH RIVER AT VINCENNES, IND.												
Wabash—Ohio													Wabash—Ohio												
[Flood stage, 16 feet]													[Flood stage, 14 feet]												
1	4.2	4.8	4.0	14.2	4.4	2.7	2.3	1.8	2.6	5.8	2.6	6.1	1	0.6	1.1	0.4	6.0	1.8	0.2	-0.8	-0.4	0.4	3.3	0.2	6.3
2	4.2	4.8	4.0	14.0	4.2	2.6	2.3	1.8	2.6	5.7	2.6	6.0	2	0.7	1.0	0.6	6.9	1.7	0.2	-0.8	-0.5	0.4	3.4	0.2	5.3
3	4.0	4.8	4.2	11.9	4.1	2.5	2.2	1.8	3.3	5.3	2.7	5.8	3	0.7	0.9	1.0	7.7	1.6	0.2	-0.8	-0.5	0.4	2.9	0.2	5.2
4	3.9	4.7	4.6	10.6	4.0	2.5	2.2	2.0	5.3	4.8	2.7	5.3	4	0.7	1.9	1.2	7.7	1.5	0.2	-0.4	-0.6	0.3	2.7	0.2	4.6
5	4.0	4.7	4.6	10.6	4.0	2.6	2.2	2.0	5.2	4.4	2.8	5.4	5	1.0	1.9	1.3	7.0	1.4	0.2	-0.4	-0.6	0.5	2.4	0.2	4.2
6	4.2	4.5	4.7	7.9	8.9	3.9	3.0	2.1	2.0	4.8	4.2	5.0	6	1.0	1.0	1.7	6.4	1.3	0.1	-0.4	-0.6	0.9	2.1	0.2	3.7
7	4.1	4.3	4.7	7.8	8.9	3.8	3.0	2.1	2.0	4.4	4.0	3.4	7	0.9	1.0	2.2	6.0	1.3	0.1	-0.2	-0.6	0.9	1.8	0.2	3.4
8	4.1	4.2	4.6	6.9	8.4	3.7	3.0	3.0	1.9	4.6	3.7	3.5	8	0.9	1.0	3.1	5.6	1.3	0.2	-0.2	-0.6	1.7	1.4	0.2	3.2
9	4.4	4.0	6.2	7.3	3.7	3.0	3.0	1.9	4.8	3.6	3.2	4.2	9	1.0	0.9	3.2	5.3	1.2	0.2	-0.2	-0.6	1.7	1.2	0.2	3.0
10	4.4	3.8	5.2	6.7	3.7	3.1	3.3	1.8	5.2	3.5	3.1	4.2	10	1.0	0.7	2.8	4.8	1.2	0.2	-0.2	-0.6	1.4	1.2	0.2	2.6
11	4.6	4.0	4.6	6.4	3.0	3.0	3.1	2.5	4.8	3.3	3.1	4.1	11	0.9	0.7	2.4	4.1	1.1	0.2	-0.2	-0.4	1.5	1.0	0.4	2.3
12	5.0	4.2	4.3	6.1	3.5	3.0	2.9	3.9	4.4	3.1	2.9	3.7	12	1.0	0.7	1.9	3.8	1.0	0.2	-0.4	-0.5	1.2	0.9	0.4	2.0
13	5.2	4.2	4.1	5.9	3.4	2.9	3.9	4.3	3.9	3.0	2.8	3.6	13	1.2	0.6	1.6	3.5	1.0	0.3	-0.5	-0.7	1.7	0.8	0.4	1.7
14	5.0	4.2	4.1	5.8	3.4	2.8	3.2	3.9	3.7	3.0	2.8	3.8	14	1.3	0.6	1.3	3.3	1.0	0.3	-0.5	-0.7	1.5	0.7	0.3	1.5
15	4.8	4.1	4.1	5.7	3.4	2.6	3.0	3.4	4.1	2.9	2.8	4.1	15	1.3	0.7	1.2	3.2	0.9	0.2	-0.5	-0.8	1.3	0.7	0.3	1.4
16	4.5	3.9	4.0	5.5	3.4	2.5	2.8	3.1	3.8	2.9	2.8	3.9	16	1.4	0.7	1.1	3.1	0.9	0.2	-0.7	-0.8	1.3	0.6	0.3	1.3
17	4.6	3.8	4.0	5.5	3.4	2.5	2.6	11.9	3.9	2.9	2.8	4.0	17	1.3	0.7	1.1	3.8	0.8	0.2	-0.5	-0.9	1.4	0.6	0.3	1.3
18	4.7	3.8	3.9	5.9	3.5	2.6	2.5	12.1	4.5	3.0	2.8	3.8	18	1.3	0.7	1.1	4.3	0.8	0.1	-0.4	-1.0	1.4	0.5	0.2	1.3
19	4.5	3.8	4.0	9.7	3.1	2.5	2.4	9.5	4.3	2.9	2.9	3.6	19	1.3	0.7	1.1	3.7	0.8	0.0	-0.3	-2.0	1.4	0.5	0.2	1.3
20	4.6	3.6	4.3	9.0	2.7	2.4	2.3	6.9	4.0	2.8	3.0	3.5	20	1.3	0.6	1.1	3.5	0.8	0.0	-0.2	-4.1	1.4	0.5	0.2	1.8
21	4.4	3.8	6.7	7.7	3.0	2.4	2.2	4.6	3.7	2.8	3.8	3.7	21	1.3	0.4	1.1	3.4	0.7	-0.4	-1.1	5.0	1.4	0.4	0.2	1.7
22	4.4	3.8	5.7	6.7	3.0	2.4	2.2	4.6	3.7	2.8	3.6	3.6	22	1.2	0.4	1.1	4.4	0.7	-0.8	-1.0	4.7	1.3	0.4	0.2	1.5
23	4.3	3.7	5.7	6.0	3.0	2.4	2.2	4.1	4.1	2.8	8.7	3.6	23	1.2	0.4	1.5	4.0	0.6	-0.8	-1.1	3.4	1.6	0.3	1.8	1.4
24	4.4	3.5	5.6	5.1	2.9	2.5	2.1	3.7	3.9	2.9	7.6	3.1	24	1.2	0.6	2.0	3.5	0.5	-0.8	-1.2	2.4	2.1	0.3	4.4	1.3
25	4.9	3.4	5.2	5.0	2.9	2.5	2.1	3.5	3.9	2.9	7.6	3.1	25	1.2	0.5	2.2	3.1	0.5	0.0	-0.2	1.5	2.0	0.3	6.2	1.3
26	6.0	3.8	5.6	4.7	2.8	2.5	2.0	3.2	3.5	2.9	5.7	3.2	26	1.2	0.5	2.3	2.5	0.5	0.0	-0.4	1.4	1.5	0.2	6.5	2.0
27	5.4	4.0	5.1	4.6	2.8	2.5	2.0	3.1	3.3	2.8	5.6	3.5	27	1.2	0.5	3.0	2.3	0.5	0.0	-0.3	1.1	1.3	0.2	6.0	2.0
28	5.1	-----	9.2	4.6	2.8	2.4	1.9	3.0	4.0	2.8	5.7	3.7	28	1.2	0.4	4.5	2.1	0.4	0.0	-0.2	0.9	1.3	0.2	5.5	1.8
29	4.1	-----	11.5	4.4	2.8	2.3	1.9	2.8	4.9	2.7	6.2	4.0	29	1.6	-----	5.2	2.0	0.4	-0.2	-0.6	1.4	0.2	4.9	1.3	1.2
30	4.2	-----	12.5	-----	2.7	-----	1.8	2.7	-----	2.7	-----	4.3	30	1.4	-----	4.8	1.8	0.3	-0.4	-0.5	2.5	0.2	4.8	1.2	1.3
31	4.2	-----	12.5	-----	2.7	-----	1.8	2.7	-----	2.7	-----	4.3	31	1.4	-----	5.4	-----	0.3	-----	-0.3	0.5	-----	0.2	-----	2.4
M'n.	4.5	4.1	5.8	7.3	3.4	2.6	2.5	3.9	4.1	3.4	4.1	4.2	M'n.	1.1	.8	2.1	4.3	.9	.0	-1	.9	1.3	1.0	1.5	2.4
WABASH RIVER AT TERRE HAUTE, IND.													WABASH RIVER AT MOUNT CARMEL, ILL.												
Wabash—Ohio													Wabash—Ohio												
[Flood stage, 14 feet]													[Flood stage, 19 feet]												
1	1.0	1.0	0.7	9.7	1.6	0.3	0.1	-0.4	0.2	3.6	0.1	5.8	1	1.8	2.0	1.1	11.0	2.7	0.9	1.7	0.8	1.0	3.5	0.7	5.2
2	1.0	1.0	0.8	10.6	1.4	0.3	-0.2	-0.4	0.1	3.6	0.1	5.5	2	1.8	1.7	1.1	11.5	2.6	0.9	1.4	0.8	1.0	4.7	0.6	5.0
3	1.0	1.0	0.8	10.6	1.4	0.3	-0.2	-0.5	0.0	3.3	0.1	4.9	3	1.7	1.7	1.1	11.4	2.5	0.9	1.2	0.7	0.9	4.7	0.6	5.0
4	1.0	1.2	1.8	9.0	1.4	0.2	-0.2	-0.5	0.3	2.7	0.1	4.2	4	1.7	1.7	1.1	10.8	2.4	0.8	1.4	0.9	0.9	4.1	0.7	5.4
5	1.0	1.4	2.3	7.6	1.2	0.1	-0.2	-0.3	1.7	2.2	0.2	4.0	5	1.9	1.5	2.5	9.8	2.2	0.8	1.8	0.7	0.9	3.6	0.9	4.9
6	1.0	1.4	3.2	6.7	1.1	0.1	-0.2	-0.3	1.9	1.8	0.3	4.0	6	2.0	1.5	3.6	8.5	2.2	0.9	1.8	0.7	1.1	3.2	0.9	4.7
7	1.0	1.3	4.3	6.4	1.1	0.2	-0.2	-0.4	1.8	1.5	0.3	3.6	7	2.1	1.5	4.9	7.5	1.9	0.9	1.8	0.6	1.6	2.7	0.8	4.1
8	1.2	1.0	4.3	6.1	1.0	0.4	-0.1	-0.4	1.7	1.3	0.6	3.2	8	2.1	1.5	5.6	7.1	2.1	0.9	1.6	0.6	2.0	2.4	0.8	3.7
9	1.2	0.6	3.5	5.4	0.9	0.4	0.4	-0.4	1.7	1.3	0.7	2.7	9	2.1	1.5	5.9	6.8	2.1	0.9	1.7	0.6	2.1	2.1	0.9	3.4
10	1.1	0.5	2.9	5.0	0.9	0.4	0.5	-0.5	1.8	1.0	0.8	2.5	10	2.2	1.5	6.4	6.2	2.1	1.0	1.3	0.9	2.0	1.9	1.0	3.1
11	1.4	0.5	2.4	4.1	0.8	0.3	0.8	-0.2	2.0	0.9	0.8	2.0	11	2.2	1.5	4.8	5.6	2.0	1.8	1.3	0.7	2.3	1.7	1.0	2.8
12	1.5	0.5	1.7	3.7	0.8	0.4	0.7	0.0	1.8	0.8	0.4	1.0	12	2.0	1.5	4.3	5.1	2.0	2.3	1.5	0.3	3.2	1.6	1.0	2.6
13	1.8	0.8	1.5	3.5	0.8	0.4	0.5	0.7	1.6	0.7	0.4	1.6	13	2.0	1.5	3.8	4.6	1.7	3.5	1.5	0.6	3.2	1.4	0.9	2.4
14	2.0	0.8	1.2	3.1	0.7	0.3	0.9	1.1	1.2	0.6	0.4	1.6	14	2.3	1.4	3.3	4.3	1.7	2.9	1.5	0.5	2.7	1.4	0.8	2.2
15	1.9	0.8	1.2	3.0	0.7	0.3	0.8	0.9	1.2	0.5	0.4	1.6	15	2.3	1.4	3.0	4.0	1.6	2.4	1.5	0.6	2.3	1.2	0.8	1.9
16	1.7	0.9	1.2	3.1	0.7	0.2	0.4	0.7	1.3	0.5	0.4	1.6	16	2.0	1.4	2.8	3.8	1.7	1.8	1.5	0.7	2.1	1.1	0.8	1.8
17	1.5	0.8	1.2	4.0	0.7	0.2	0.4	0.5	1.8	0.5	0.2	1.6	17	2.0	1.3	2.6	4.0	1.6	1.5	1.7	0.6	2.1	1.0	0.7	1.8
18	1.4	0.8	1.2	3.7	0.7	0.1	0.2	0.1	1.7	0.3	0.2	1.5	18	2.3	1.3	2.5	5.2	1.5	1.3	1.7	0.2	2.3	0.9	0.7	1.7
19	1.7	0.9	1.2	3.7	0.6	0.0	0.2	0.7	1.8	0.3	0.2	1.5	19	2.2	1.3	2.4	5.8	1.5	1.1	1.5	0.2	2.5	0.9	0.6	1.4
20	1.5	0.5	1.2	5.6	0.5	0.0	0.2	0.8	1.8	0.2	0.2	1.3	20	2.1	1.2	2.4	5.6	1.4	1.0	1.6	0.4	2.4	0.8	0.6	2.0
21	1.5	0.3	1.5	5.6	0.5	0.0	0.1	4.9	1.4	0.2															

(Omission of page number under "gage reading" indicates the record is short and broken, and is not published. A copy of the available readings may be obtained by application to the Chief of the Weather Bureau.)

Station	River	Miscellaneous data	Gage readings	Station	River	Miscellaneous data	Gage readings
		Page	Page			Page	Page
Lowell, Mich.	Grand	3		Pearl River, La.	Pearl	4	52
Lowell, Ohio	Muskingum	6	78	Pelzer, S. C.	Saluda	4	35
Lumber City, Ga.	Ocmulgee	4	40	Pensacola, Okla.	Neosho	8	
Lynchburg, Va.	James	3	29	Peoria, Ill.	Illinois	5	57
McConnelsville, Ohio	Muskingum	6	77	Perkins, Okla.	Cimarron	7	113
McGhee, Tenn.	Little Tennessee	7	96	Peru, Ill.	Illinois	5	56
McKeesport, Pa.	Monongahela	6	76	Philippi, W. Va.	Tygart	6	74
Macon, Ga.	Ocmulgee	4	39	Phillipsburg, N. J.	Delaware	3	24
Madison, Ark.	St. Francis	8	125	Phoenix, Ariz.	Salt	9	
Manila, Ark.	Big Lake Outlet	8	124	Piedra, Calif.	Kings	9	
Mankato, Minn.	Minnesota	4	53	Pierre, S. Dak.	Missouri	5	68
Marble Falls, Tex.	Colorado	9	136	Pikeville, Ky.	Levisa Fork	6	81
Marcus, Wash.	Columbia	9	152	Pine Bluff, Ark.	Arkansas	8	119
Marietta, Ohio	Muskingum	6		Piqua, Ohio	Miami	6	85
Do	Ohio	7	101	Pittsburgh, Pa.	Ohio	7	100
Marked Tree, Ark.	St. Francis	8	125	Pleasant Hill, Ohio	Stillwater	6	84
Markland, Ind.	Ohio	7	106	Point Pleasant, W. Va.	Ohio	7	103
Mars Bluff Bridge, S. C.	Peedee	4	35	Poplar Bluff, Mo.	Black	7	111
Marshall, N. C.	French Broad	7		Portage, Wis.	Wisconsin	5	54
Marysville, Calif.	Yuba	9	145	Port Jervis, N. Y.	Delaware	3	24
Mauch Chunk, Pa.	Lehigh	3	23	Portland, Mich.	Grand	3	
Mayos Bar Lock, Ga.	Coosa	4	46	Portland, Oreg.	Willamette	9	151
Mechanicville, N. Y.	Hudson	3	22	Portsmouth, Ohio	Ohio	7	104
Mebama, Oreg.	North Santiam	9	149	Poston, S. C.	Peedee	4	
Meldrim, Ga.	Ogeechee	4		Prairie du Chien, Wis.	Mississippi	5	60
Melville, La.	Atchafalaya	8	130	Prospect, Ohio	Seloto	6	82
Memphis, Tenn.	Mississippi	8	126	Pueblo, Colo.	Arkansas	8	116
Mendota, Va.	Holston-North Fork	7	94	Quincy, Ill.	Mississippi	5	62
Mercedes, Tex.	Rio Grande	9	140	Radford, Va.	New	6	79
Merrill, Iowa	Floyd	5		Rainbow, Tex.	Brazos		134
Merrill, Miss.	Pascagoula	4	50	Ralston, Okla.	Arkansas	8	117
Miamisburg, Ohio	Miami	6	86	Randolph, Va.	Roanoke	4	31
Middletown, Ohio	do	6	86	Ravenswood, W. Va.	Ohio	7	102
Midland, Mich.	Tittabawassee	3		Reading, Pa.	Schuylkill	3	23
Midville, Ga.	Ogeechee	4	39	Reads, Minn.	Mississippi	5	59
Miles City, Mont.	Yellowstone	5		Red Bluff, Calif.	Sacramento	9	146
Milledgeville, Ga.	Oconee	4	40	Red Wing, Minn.	Mississippi	5	59
Millers Ferry, Ala.	Alabama	4	48	Renovo, Pa.	Susquehanna—West Branch	3	25
Milstead, Ala.	Tallapoosa	4	47	Resaca, Ga.	Oostanaula	4	45
Mineral Wells, Tex.	Brazos	8	34	Reserve, La.	Mississippi	8	129
Moline, Ill.	Rock	5	54	Richmond, Va.	James	4	30
Moncure, N. C.	Haw	4	33	Rimini, S. C.	Santee	4	37
Monroe, La.	Ouachita	8	120	Ringo Crossing, Tex.	Sulphur	8	121
Montezuma, Ga.	Flint	4	42	Riogrande, Tex.	Rio Grande	9	139
Montgomery, Ala.	Alabama	4	47	Rio Vista, Calif.	Sacramento	9	147
Monticello, Miss.	Pearl	4	51	River Falls, Ala.	Conecuh	4	45
Moorhead, Minn.	Red of North	3	17	River Junction, Fla.	Apalachicola	4	43
Morgan City, La.	Atchafalaya	8	130	Riverside, Tex.	Trinity	8	133
Morgantown, W. Va.	Monongahela	6	75	Riverton, Va.	Shenandoah	3	28
Morrilton, Ark.	Arkansas	8	118	Riverton Lock, Ala.	Tennessee	7	99
Morris, Ill.	Illinois	5	56	Rock Island, Tenn.	Caney Fork	6	92
Mosgrove, Pa.	Allegheny	6		Rockland, Tex.	Neches	8	131
Mount Carmel, Ill.	Wabash	6	91	Rocky Mount, N. C.	Tar	4	32
Mount Pleasant, Mich.	Chippewa	3		Rogersville, Tenn.	Holston	7	95
Muscatine, Iowa	Mississippi	5	61	Rome, Ga.	Oostanaula	4	45
Naples, Tex.	Sulphur	8	121	Rosenberg, Tex.	Brazos	9	135
Nashville, Tenn.	Cumberland	6	93	Rumsey, Ky.	Green	6	89
Natchez, Miss.	Mississippi	8	128	Sacramento, Calif.	Sacramento	9	147
Natrona, Pa.	Allegheny	6	73	Sageeyah, Okla.	Verdigris	7	113
Nebraska City, Nebr.	Missouri	5	70	Saginaw, Mich.	Saginaw	3	18
Neosho Rapids, Kans.	Neosho	7		Saginaw, Oreg.	Willamette—Coast Fork	9	149
Neuse, N. C.	Neuse	4	32	St. Charles, Mo.	Missouri	5	71
New Braunfels, Tex.	Guadalupe	9	137	St. Francis, Ark.	St. Francis	8	124
Newburgh, Ind.	Ohio	7	108	St. Francis Lake Lock, Ark.	St. Francis	8	124
Newcomertown, Ohio	Tuscarawas	6	77	St. John, Calif.	Stony Creek	9	145
New Harmony, Ind.	Wabash	6	92	St. Joseph, Mo.	Missouri	5	70
New Madrid, Mo.	Mississippi	8	126	St. Louis, Mo.	Mississippi	5	63
New Orleans, La.	do	8	129	St. Paul, Minn.	Mississippi	5	58
Newport, Ark.	White	7	112	St. Thomas, Mo.	Osage	5	68
Newport, Pa.	Juniata	3	26	Salem, Oreg.	Willamette	9	151
Newport, Tenn.	Pigeon	7		Salida, Colo.	Arkansas	8	
Newport Wash.	Clark Fork	9	148	Saltsburg, Pa.	Kiskimintus	5	72
New Richmond, Ohio	Ohio	7	105	Sapinero, Colo.	Gunnison	9	
New River, Tenn.	New	6	92	Savannah, Tenn.	Tennessee	7	100
Newton, Ala.	Choctawhatchee	4	44	Schenectady, N. Y.	Mohawk	3	
Nicolaus, Calif.	Feather	9	146	Schenley, Pa.	Allegheny	6	73
Noblesville, Ind.	White-West Fork	6		Selma, Ala.	Alabama	4	47
Norcross, Ga.	Chattahoochee	4		Seymour, Ind.	White—East Fork	6	
North Platte, Nebr.	North Platte	5	64	Sharon, Pa.	Shenango	6	
Do	South Platte	5	64	Sherburne, N. Y.	Chenango	3	24
Okay, Okla.	Verdigris	7		Shields, Mich.	Tittabawassee	3	
Oklahoma City, Okla.	North Canadian	8	115	Shoals, Ind.	White—East Fork	6	90
Olean, N. Y.	Allegheny	5	72	Shreveport, La.	Red	8	122
Omaha, Nebr.	Missouri	5	70	Shubuta, Miss.	Chickasawhay	4	50
Orange, Tex.	Sabine	8	131	Sidney, Ohio	Miami	6	85
Oregon City, Oreg.	Willamette	9	151	Simmesport, La.	Atchafalaya	8	130
Oroville, Calif.	Feather	9	145	Sioux City, Iowa	Missouri	5	69
Osceola, Mo.	Osage	5		Smithfield, N. C.	Neuse	4	33
Oswego, Kans.	Neosho	8	114	Smithville, Tex.	Colorado	9	136
Ottumwa, Iowa	Des Moines	5	56	Solomon, Kans.	Smoky Hill	5	65
Overton, Nebr.	Platte	5		South Charleston, W. Va.	Kanawha	6	80
Owensboro, Ky.	Ohio	7	107	Springbank, Ark.	Red	8	
Owosso, Mich.	Shlawassee	3		Springdale, Pa.	Allegheny	6	74
Ozark, Ark.	Arkansas	8	118	Springfield, Mass.	Connecticut	3	22
Ozark Beach, Mo.	White	7		Springfield, Ohio	Mad	6	84
Pacific, Mo.	Meramec	5		Sunbury, Pa.	Susquehanna	3	27
Paducah, Ky.	Ohio	7	109	Swan Lake, Miss.	Tallahatchie	8	125
Paintsville, Ky.	Levisa Fork	6	81	Sycamore Island, Md.	Potomac	3	
Paonia, Colo.	Gunnison-North Fork	9		Tarboro, N. C.	Tar	4	32
Parker, Ariz.	Colorado	9	143	Terre Haute, Ind.	Wabash	6	91
Parkersburg, W. Va.	Ohio	7	102	The Dalles, Oreg.	Columbia	9	153
Parkers Landing, Pa.	Allegheny	5	73	Three Rivers, Tex.	Nueces	9	138
Parkin, Ark.	St. Francis	8	125	Tiffin, Ohio	Sandusky	3	20
Pearl, Ill.	Illinois	6		Tippacanoe City, Ohio	Miami	6	85

UNITED STATES DEPARTMENT OF AGRICULTURE
WEATHER BUREAU, WILLIS R. GREGG, Chief

DAILY RIVER STAGES

AT RIVER GAGE STATIONS ON THE PRINCIPAL RIVERS OF THE UNITED STATES

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VOLUME XXXIII
1935

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COMPILED BY MONTROSE W. HAYES
PRINCIPAL METEOROLOGIST



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INTRODUCTION

This volume, containing the daily river stages for 1935, is the thirty-third of a series of Daily River Stages on the Principal Rivers of the United States, the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

- Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.
- II. Stages of the Mississippi River and of its Principal Tributaries, except the Ohio River, 1860 to 1889.
- III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.

DAILY STAGES AT RIVER GAGE STATIONS ON THE PRINCIPAL RIVERS OF THE UNITED STATES

Volume IV. 1890 to 1892.	Volume XII. 1913 and 1914.	Volume XIX. 1921.	Volume XXVI. 1928.
V. 1893 to 1895.	XIII. 1915.	XX. 1922.	XXVII. 1929.
VI. 1896 to 1899.	XIV. 1916.	XXI. 1923.	XXVIII. 1930.
VII. 1900 to 1904.	XV. 1917.	XXII. 1924.	XXIX. 1931.
VIII. 1905 and 1906.	XVI. 1918.	XXIII. 1925.	XXX. 1932.
IX. 1907 and 1908.	XVII. 1919.	XXIV. 1926.	XXXI. 1933.
X. 1909 and 1910.	XVIII. 1920.	XXV. 1927.	XXXII. 1934.
XI. 1911 and 1912.			

Volumes XVI to XXXIII can be bought from the Superintendent of Documents, Washington, D. C.; volumes I to XV are out of print and cannot be supplied.

The river stages are the vertical distances, in feet and tenths, of the water surface above or below the zero of the gage. The zero has, as a rule, been set at or near the lowest known water.

Gage readings are usually made at 8 a. m., seventy-fifth meridian time, east of the Continental Divide, and at 7 a. m., local time, west of the divide.

Extreme stages for a month, not observed at the regular time for reading the gage, are printed as a note at the foot of the table or page. This practice was begun in 1907.

In some cases the zero planes of gages have been changed, either through accident or through necessary removals. The stations at which changes have occurred are given in a table headed "Corrigenda", and the corrections required to reduce previous readings to the zero now in use are also given in the table if they have not been previously published.

The country is divided into districts, and each district has a designated center at which the administrative and forecasting work is carried on. The following table shows the centers, and their districts. Superior figure ⁽¹⁾ opposite a center indicates that stage forecasts are made daily throughout the year, and ⁽²⁾ indicates that stage forecasts are made daily during seasons of navigation and in times of flood. At those centers not bearing a reference, forecasts are made only during times of flood.

ADMINISTRATIVE AND FORECASTING CENTERS AND THEIR DISTRICTS

Albany, N. Y.-----	Hudson River and tributaries.
Albuquerque, N. Mex.-----	Pecos River in New Mexico; Rio Grande and tributaries at and above El Paso, Tex.; Canadian River and tributaries in New Mexico.
Asheville, N. C.-----	French Broad River and tributaries above North Carolina-Tennessee State line.
Atlanta, Ga.-----	Apalachicola River and tributaries.
Augusta, Ga.-----	Savannah and Ogeechee Rivers and tributaries.
Binghamton, N. Y.-----	Susquehanna River and tributaries at and above Binghamton, N. Y.
Bismarck, N. Dak.-----	Missouri River and tributaries at and above Bismarck, N. Dak.
Brownsville, Tex.-----	Rio Grande below Laredo, Tex.
Cairo, Ill. ¹ -----	Ohio River below the mouth of the Wabash; Mississippi River from and including Cape Girardeau, Mo., to and including New Madrid, Mo.; Tennessee River and tributaries below Decatur, Ala.
Charleston, S. C.-----	Rivers of northeastern South Carolina.
Chattanooga, Tenn. ¹ -----	Tennessee River and tributaries from below Knoxville, Tenn., to and including Decatur, Ala.
Cincinnati, Ohio ¹ -----	Ohio River and southern tributaries from and including the mouth of the Kanawha, to and including the mouth of the Little Kentucky; the northern tributaries of the Ohio from Dam No. 31 to a point opposite the mouth of the Little Kentucky.
Columbia, S. C.-----	Santee River and tributaries.
Columbus, Ohio.-----	The Sandusky River; the northern tributaries of the Ohio River from Dam No. 17 to Dam No. 31.
Concordia, Kans.-----	Republican River in Kansas and Nebraska.
Dallas, Tex. ¹ -----	Trinity River and tributaries above Long Lake, Tex.
Davenport, Iowa ² -----	Mississippi River and tributaries from below Dubuque, Iowa, to and including the mouth of the Iowa, but not including Keithsburg, Ill.
Del Rio, Tex.-----	Rio Grande from below El Paso to and including Laredo, Tex., and the Pecos River in Texas.
Denver, Colo.-----	Colorado River and tributaries, except the Gila; Arkansas River and tributaries in Colorado.
Des Moines, Iowa.-----	Des Moines River and tributaries above Eldon, Iowa.
Dubuque, Iowa ² -----	Mississippi River and tributaries from below La Crosse, Wis., to and including Dubuque, Iowa; the Wisconsin River and tributaries.
Evansville, Ind. ¹ -----	Ohio River and tributaries from below Hawesville, Ky., to the mouth of, but not including, the Wabash.
Fort Smith, Ark.-----	Arkansas River and tributaries (except the Neosho in Kansas, and the Canadian) from the Kansas-Oklahoma line to and including Fort Smith, Ark.

Fort Wayne, Ind.....	Maumee River and tributaries.
Fresno, Calif.....	San Joaquin River and tributaries above the mouth of the Tuolumne.
Grand Rapids, Mich.....	Grand River and tributaries below Grand Ledge, Mich.
Harrisburg, Pa.....	Susquehanna River and tributaries below Binghamton, N. Y.
Hartford, Conn.....	Connecticut River and tributaries.
Houston, Tex. ¹	Sabine, Neches, and Brazos Rivers; Trinity River at and below Long Lake, Tex.
Indianapolis, Ind.....	Wabash River and tributaries.
Kansas City, Mo.....	Missouri River and tributaries, except the Kansas River at and above Lawrence, Kans., from the mouth of the Platte to and including Lexington, Mo.
Keokuk, Iowa.....	Mississippi River and tributaries (except the Iowa and the Des Moines above Eldon, Iowa), from and including Keithsburg, Ill., to and including Louisiana, Mo.
Knoxville, Tenn. ¹	Tennessee River and tributaries at and above Knoxville, Tenn., except French Broad River and tributaries above North Carolina-Tennessee State line.
La Crosse, Wis. ²	Mississippi River and tributaries from and including the mouth of the St. Croix River, to and including La Crosse, Wis.
Lansing, Mich.....	Grand River and tributaries at and above Grand Ledge, Mich.; Saginaw River and tributaries.
Little Rock, Ark. ¹	Arkansas River and tributaries below Fort Smith, Ark.; White River and tributaries, except the Black in Missouri; Ouachita River and tributaries in Arkansas.
Louisville, Ky. ¹	Ohio River and tributaries from mouth of the Kentucky to and including Hawesville, Ky.
Macon, Ga.....	Altamaha River and tributaries.
Memphis, Tenn. ¹	Mississippi River from below New Madrid, Mo., to the mouth of the White; St. Francis River and tributaries.
Meridian, Miss.....	Pascagoula and Pearl Rivers and tributaries.
Minneapolis, Minn.....	Mississippi River and tributaries above the mouth of the St. Croix River.
Mobile, Ala. ¹	Tombigbee River and tributaries.
Montgomery, Ala. ¹	Alabama River and tributaries.
Moorhead, Minn.....	Red River of the North and tributaries below the Canadian line.
Nashville, Tenn. ¹	Cumberland River and tributaries.
New Orleans, La. ¹	Mississippi River below the mouth of the Big Black; Red River below Shreveport, La.; Ouachita and Black Rivers and tributaries in Louisiana; Atchafalaya River.
Oklahoma City, Okla.....	Canadian River and tributaries east of the eastern boundary of New Mexico.
Omaha, Nebr.....	Missouri River and tributaries from below Sioux City, Iowa, to and including the mouth of the Platte.
Parkersburg, W. Va. ¹	Ohio River and southern tributaries from below Dam No. 13 to and including Point Pleasant, W. Va.
Pensacola, Fla.....	Escambia and Choctawhatchee Rivers and tributaries.
Philadelphia, Pa.....	Delaware River and tributaries.
Phoenix, Ariz.....	Gila River and tributaries.
Pittsburgh, Pa. ¹	Ohio River and tributaries at and above Dam No. 13.
Portland, Oreg. ¹	Columbia River and tributaries.
Raleigh, N. C.....	The rivers, and their tributaries, that enter the Atlantic Ocean on the North Carolina coast.
Richmond, Va.....	James River and tributaries.
Sacramento, Calif.....	Rivers in the central valleys of California, except the San Joaquin above the mouth of the Tuolumne.
St. Louis, Mo. ¹	Mississippi River and its tributaries from Louisiana to Cape Girardeau, Mo., but not including either terminal (see Kansas City and Topeka centers for Missouri and Osage limits); Black River in Missouri.
San Antonio, Tex.....	Colorado, Guadalupe, Nueces, and San Antonio Rivers and tributaries.
Shreveport, La. ¹	Red River and tributaries at and above Shreveport, La.
Sioux City, Iowa.....	Missouri River and tributaries from below Bismarck, N. Dak., to and including Sioux City, Iowa.
Topeka, Kans.....	Kansas River and tributaries at and above Lawrence, Kans., except the Republican River; Neosho and Osage Rivers and tributaries in Kansas.
Vicksburg, Miss. ¹	Mississippi River from the mouth of the White to the mouth of the Big Black; Yazoo and Big Black Rivers and tributaries.
Washington, D. C.....	Potomac River and tributaries.
Wichita, Kans.....	Arkansas River and tributaries in Kansas.

River stations, arranged by drainage areas, and miscellaneous information pertaining thereto—Continued

Station	River	Length of record ¹	Elevation of gage zero above mean sea level ²	Distance of gage above mouth of river ³	Drainage area above gage ⁴	Flood stage	Extreme stages from gage readings ⁵			
							Highest	Date	Lowest	Date
MISSISSIPPI SYSTEM—continued										
Ohio Basin—Continued										
		Years	Feet	Miles	Sq. miles	Feet	Feet		Feet	
Kanawha Falls, W. Va.	Kanawha	22	622.88	95.0	8,415	25	31.7	July 17, 1916	-.9	Oct. 29, 1921
London Dam, London, W. Va.	do.	2		82.8	8,552	43				
Lock No. 6, S. Charleston, W. Va.	do.	49	547.90	54.0	10,587	42	48.9	Mar. 5, 1899	1.65	Aug. 26, 1893
Logan, W. Va.	Guyandot	14	639.08	81.4	859	20	27.0	Jan. 28, 1918	.0	Oct. 10, 1923
Wayne, W. Va.	Twelvepole Creek	11	604.74	28.8	305	25	28.3	June 30, 1928	.2	Oct. 5, 1935
Williamson, W. Va.	Tug Fork	29		57.3	941	38	38.1	Jan. 29, 1918	-.8	Oct. 2, 1908
Pikeville, Ky.	Levisa Fork	28	635.5	88.5	1,225	35	49.0	Jan. 28, 1918	-.3	Sept. 6, 1935
Paintsville, Ky.	do.	8	566.67	38.5		40	34.98	Mar. 13, 1935	1.06	July 23, 1930
Lock No. 3, Louisa, Ky.	Big Sandy	47	516.81	26.6	3,821	45	48.0	Mar. 6, 1899	.7	Nov. 18, 1884
Delaware, Ohio	Olentangy	26	848.58	26.2	415	9	25.5	Mar. 25, 1913	-.1	Dec. 15, 1934
La Rue, Ohio	Scioto	20	910.19	196.2	255	11	15.0	Mar. 20, 1927	1.9	July 31, 1916
Prospect, Ohio	do.	29	891.72	172.2	554	10	15.0	Mar. 22, 1927	.2	Oct. 2, 1910
Columbus, Ohio	do.	38	700.03	131.9	1,613	22	22.9	Mar. 25, 1913	-.8	July 27, 1923
Circleville, Ohio	do.	24	643.03	100.4	3,217	14	28.2	Mar. 26, 1913	1.8	Aug. 17, 1925
Chillicothe, Ohio	do.	28	594.02	70.4	3,847	16	39.8	do.	1.0	Sept. 27, 1916
Kings Mills, Ohio	Little Miami	11	587.10	28.1	1,048	17	33.7	do.	.5	July 3, 1914
Cynthiana, Ky.	South Fork	19		46	641	20	22.6	Dec. 24, 1921	.6	July 26, 1921
Farmers, Ky.	Licking	19	635.70	172	782	25	31.1	Feb. 9, 1918	1.2	Aug. 17, 1917
Falmouth, Ky.	do.	49	512.2	51.2	2,267	28	39.1	Dec. 25, 1921	-.1	Sept. 6, 1930
Pleasant Hill, Ohio	Stillwater	20	840.60	29.2	502	13	16.4	Feb. 26, 1929	.7	Aug. 6, 1934
Springfield, Ohio	Mad.	22	881.95	23.6	477	11	15.1	do.	1.4	July 29, 1934
Brookville, Ind.	Whitewater	18	595.73	27	1,230	20	25.56	Feb. 26, 1929	.3	July 26, 1934
Sidney, Ohio	Miami	22	924.74	134.8	545	12	14.2	Mar. 21, 1927	.1	Sept. 1, 1924
Piqua, Ohio	do.	25	844.00	122.1	850	17	20.1	Mar. 25, 1913	.8	July 17, 1934
Tippecanoe City, Ohio	do.	13	786.77	104.5	955	27	13.8	Mar. 21, 1927	.5	July 31, 1934
Dayton, Ohio	do.	43	721.01	84.5	2,515	21	31.7	Mar. 25, 1913	-.1	Sept. 5, 1925
Miamisburg, Ohio	do.	13	678.44	68.6	2,719	22	19.0	Feb. 27, 1929	-.3	Oct. 17, 1929
Franklin, Ohio	do.	13	658.41	61.3	2,731	16	16.1	May 15, 1933	.0	Aug. 3, 1934
Middletown, Ohio	do.	13	624.65	53.6	3,158	15	19.0	Feb. 27, 1929	.0	Oct. 8, 1924
Hamilton, Ohio	do.	26	560.00	35.3	3,637	17	43.1	Mar. 26, 1913	-1.7	Oct. 21, 1932
Hazard, Ky.	North Fork	11		96.0	442	20	37.0	May 30, 1927	-.4	Aug. 1, 1925
Jackson, Ky.	do.	30	698.67			28	41.9	do.	.6	Oct. 21, 1904
Lock No. 14, Heidelberg, Ky.	Kentucky	19	627.2	249.3	2,639	30	34.4	Mar. 24, 1929	4.8	Nov. 10, 1930
Lock No. 10, Ford, Ky.	do.	30	556.8	176.3	3,948	30	35.1	Mar. 29, 1913	9.1	Sept. 20, 1930
Lock No. 7, Highbridge, Ky.	do.	35	503.66	117.0	5,024	30	34.8	Dec. 26, 1926	4.7	Nov. 24, 1912
Lock No. 4, Frankfort, Ky.	do.	50	462.17	65.0	5,396	31	38.3	Mar. 28, 1913	3.2	Nov. 1, 1908
Bowling Green, Ky.	Barren	12	408.04	29.5	1,875	20	36.5	Jan. 3, 1919	.0	Oct. 18, 1923
Lock No. 6, Brownsville, Ky.	Green	19	403.26	180.6	2,751	28	62.8	Jan. 10, 1913	6.1	Sept. 10, 1919
Lock No. 4, Woodbury, Ky.	do.	37	373.80	149.5	5,446	33	54.4	Jan. 11, 1913	5.0	Sept. 17, 1902
Lock No. 2, Rumsey, Ky.	do.	37	343.64	62.8	7,681	34	47.9	Mar. 31, 1904	3.7	July 28, 1902
Anderson, Ind.	West Fork	25		242.6	428	8	22.9	Mar. 25, 1913	3.8	June 19, 1918
Noblesville, Ind.	do.	22		215.1	844	14	18.8	Jan. 31, 1916	3.0	Aug. 29, 1914
Indianapolis, Ind.	do.	25		185.3	1,590	12	29.5	Mar. 26, 1913	2.2	Aug. 7, 1918
Ellettsville, Ind.	do.	28	472.94	78.2	4,470	18	31.3	Mar. 27, 1913	5.5	Jan. 11, 1909
Edwardsport, Ind.	do.	13		32.6	4,995	12	20.3	Jan. 14, 1930	2.2	Jan. 1, 1931
Seymour, Ind.	East Fork	13	555.53	167.7	2,292	10	14.6	Jan. 10, 1930		
Williams, Ind.	do.	15	472.56	70.2	4,584	10	20.6	Jan. 14, 1930	-2.0	Jan. 1, 1931
Shonks, Ind.	do.	28	442.21	56.0	4,828	25	42.2	Mar. 28, 1913	1.2	Oct. 4, 1935
Petersburg, Ind.	White	1	400.00	47.8	11,100	16				
Hazleton, Ind.	do.	12	383.26	18.9	11,200	16	30.4	Jan. 17, 1930	1.3	July 31, 1934
Bluffton, Ind.	Wabash	25		421.8	555	10	20.0	Mar. 26, 1913	.7	June 23, 1913
Logansport, Ind.	do.	18		343.2	3,860	17	25.3	do.	2.2	Dec. 4, 1914
La Fayette, Ind.	do.	22	504.14	301.4	7,324	11	24.0	Jan. 16, 1930	.6	July 28, 1934
Covington, Ind.	do.	9	473.97	260.5	8,399	16	27.7	Jan. 17, 1930	1.2	Oct. 5, 1928
Terre Haute, Ind.	do.	37	445.78	204.4	12,333	14	31.3	Mar. 27, 1913	-2.0	Feb. 6, 1862
Vincennes, Ind.	do.	19	396.43	117.2	13,840	14	25.2	Jan. 17, 1930	-.8	June 22, 1934
Mount Carmel, Ill.	do.	52	371.46	83.9	28,506	19	31.0	Mar. 30, 1913	-.2	Nov. 7, 1895
New Harmony, Ind.	do.	2	353.20	44.0		15				
New River, Tenn.	New	28	1,090.0	8.2	367	18	41.2	Mar. 23, 1929	-.3	Sept. 12, 1925
Rock Island, Tenn.	Caney Fork	25	647.41	90.3	1,656	30	40.6	do.	.0	Dec. 12, 1933
Williamsburg, Ky.	Cumberland	28	892.40	592.7	1,673	19	30.4	Mar. 25, 1929	-2.5	Sept. 16, 1919
Burnside, Ky.	do.	51	685.60	518.4	4,949	50	69.4	Mar. 24, 1929	-1.6	Nov. 8, 1895
Celina, Tenn.	do.	32	480.47	383.1	7,323	28	57.11	Dec. 29, 1926	-.2	Oct. 6, 1911
Carthage, Tenn.	do.	51	437.87	308.4	10,754	40	58.7	Dec. 30, 1926	-.4	Nov. 16, 1902
Nashville, Tenn.	do.	62	368.06	192.6	12,878	40	66.2	Jan. 1, 1927	-.1	Sept. 13, 1887
Clarksville, Tenn.	do.	35	330.95	127.0	14,504	46	60.0	Jan. 2, 1927	-1.0	Sept. 18, 1913
Lock F, Eddyville, Ky.	do.	18	289.61	43.6	17,500	50	68.5	Jan. 5, 1927	-.7	Oct. 14, 1894
Mendota, Va.	North Fork	30	1,331.20	38.3	530	8	17.5	June 14, 1907	.3	Oct. 13, 1933
Elizabethton, Tenn.	Watauga	26	1,486.03	24.4	665	14	15.6	July 15, 1916	1.0	July 28, 1926
Bluff City, Tenn.	South Fork	36	1,368.09	34.2	810	12	15.0	May 22, 1901	-.2	Dec. 1, 1903
Rogersville, Tenn.	Holston	34	1,057.04	103.8	3,033	13		Jan. 29, 1918		Oct. 23, 1904
Embsville, Tenn.	Nolichucky	16	1,519.37	77	804	8		Aug. 16, 1928	1.06	Oct. 28, 1935
Asheville, N. C.	French Broad	33	1,859.9	147.3	949	6	25.6	July 16, 1916	.0	Nov. 1, 1904
Hot Springs, N. C.	do.	2	1,302.56		1,570	14				
Dandridge, Tenn.	do.	31	902.83	46.5	4,428	12	22.0	July 17, 1916	-.6	Sept. 9, 1925
McGhee, Tenn.	Little Tennessee	32	760.07	18.8	2,447	18	30.5	Apr. 2, 1920	1.0	Nov. 29, 1904
Clinton, Tenn.	Clinch	52	776.61	59.5	2,983	25	45.0	Mar. 31, 1886	.0	Dec. 4, 1883
Charleston, Tenn.	Hwassee	53	665.53	18.8	2,335	22	34.0	do.	.1	Sept. 21, 1925
Prospect, Tenn.	Elk	2			1,666					
Columbia, Tenn.	Duck	49	535.41	132.8	1,215	32	48.0	Mar. 30, 1902	1.3	July 9, 1927
Knoxville, Tenn.	Tennessee	53	797.59	648.1	8,935	20	36.1	Mar. 1, 1902	-1.9	Sept. 10, 1925
Loudon, Tenn.	do.	51	726.11	591.3	12,258	22	32.9	Mar. 5, 1917	1.6	Nov. 2, 1904
Kingston, Tenn.	do.	56	700.00	568.0		26				
Breedenton, Tenn.	do.	2	665.22	523.2	17,600	28				
Chattanooga, Tenn.	do.	62	621.09	464.1	21,360	30	52.1	Apr. 3, 1886	.0	Sept. 11, 1881
Hales Bar Lock, Tenn.: Upper gage.	do.	30	588.61	431.1	21,770	44	54.0	Mar. 8, 1917	37.0	Nov. 8, 1924
Lower gage.	do.	30	588.61	431.1	21,770	26	38.6	do.	-.7	Nov. 8, 1924
Bridgeport, Ala.	do.	43	585.20	414.4	22,596	18	30.9	do.	-1.9	Nov. 10, 1924
Widows Bar Lock, Ala.: Upper gage.	do.	17	580.8	408.0	22,742	17				
Lower gage.	do.	17	572.6	408.0	22,742	26				
Guntersville, Ala.	do.	34	546.8	358.1	24,286	25	39.4	Mar. 10, 1917	-.5	Sept. 29, 1925
Decatur, Ala.	do.	61	534.14	304.4	26,816	20	26.9	Apr. 8, 1886	-.8	Oct. 25, 1884
Florence, Ala.	do.	65	401.12	256.5	30,092	18	32.5	Mar. 19, 1897	-3.0	Oct. 8, 1925
Riverton, Ala.	do.	40	356.46	226.6	31,465	33	58.4	Mar. 20, 1897	4.3	Oct. 12, 1925

See footnotes at end of table.

RIVER GAGE READINGS

MISSISSIPPI SYSTEM—OHIO BASIN—Continued

1935	January	February	March	April	May	June	July	August	September	October	November	December	1935	January	February	March	April	May	June	July	August	September	October	November	December	
WABASH RIVER AT COVINGTON, IND.													WABASH RIVER AT VINCENNES, IND.													
Wabash—Ohio													Wabash—Ohio													
[Flood stage, 16 feet]													[Flood stage, 14 feet]													
1	3.9	4.9	6.9	8.2	5.1	5.8	6.2	3.9	3.1	2.6	3.7		1	3.0	3.3	3.5	6.8	2.7	4.8	6.0	1.9	1.1	0.3	0.1	1.3	
2	3.5	4.8	6.1	7.5	5.2	5.5	5.3	3.5	3.2	2.5	2.6	3.9	2	2.8	3.0	3.8	6.0	2.8	4.6	5.5	1.8	.9	.3	.0	1.2	
3	4.0	4.8	5.1	7.1	9.3	5.3	6.6	3.4	3.2	2.5	2.6	3.7	3	2.4	2.8	3.2	5.4	7.2	4.5	4.9	1.7	.8	.3	.0	1.2	
4	3.8	4.7	5.6	7.0	16.2	5.1	8.5	3.4	3.2	2.4	2.9	3.7	4	1.9	2.7	3.5	4.9	11.4	4.2	4.3	1.6	.8	.2	.1	1.1	
5	4.0	4.6	5.7	6.7	18.5	5.1	7.9	4.5	3.5	2.6	3.9	3.6	5	1.7	2.6	3.1	4.5	12.0	3.9	4.4	1.4	1.1	.2	.4	1.1	
6	4.3	4.4	5.7	6.2	20.3	5.0	6.1	4.0	3.1	2.6	3.5	3.5	6	1.5	2.5	2.9	4.3	13.2	3.6	5.8	1.5	1.2	.1	1.0	1.1	
7	4.1	4.0	6.8	6.0	20.5	5.0	7.0	3.6	3.0	2.5	3.5	3.5	7	1.5	2.3	2.9	4.3	14.0	3.6	6.7	1.7	1.2	.1	1.7	1.0	
8	6.2	4.3	8.3	6.1	20.1	4.8	6.8	3.5	2.9	2.5	4.7	3.8	8	1.8	2.2	3.1	4.3	15.2	3.7	6.0	1.8	1.0	.0	2.6	1.0	
9	9.6	5.1	11.7	6.4	20.2	4.6	6.1	3.3	2.9	2.5	4.5	4.4	9	2.6	2.1	3.8	4.2	16.0	3.5	5.1	1.7	.8	.0	3.0	1.1	
10	13.9	5.6	11.8	6.2	20.4	4.5	5.6	3.0	3.0	2.5	4.6	4.7	10	4.0	1.8	4.8	4.1	16.5	3.2	4.4	1.6	.8	.0	3.1	1.2	
11	14.2	5.2	12.6	6.1	20.0	4.5	5.1	2.9	3.2	2.5	4.6	5.1	11	6.8	2.3	7.2	4.2	16.9	3.0	4.0	1.4	.7	.0	3.2	1.4	
12	12.2	5.0	14.6	7.6	18.1	4.4	4.6	2.8	2.9	2.0	5.2	4.7	12	8.5	3.0	10.9	4.7	17.0	3.1	3.5	1.2	.6	.0	3.2	1.7	
13	10.0	5.2	14.5	10.2	16.8	4.4	4.9	2.9	2.8	2.0	5.9	4.6	13	8.8	2.8	12.1	4.9	17.0	3.1	3.1	1.0	.6	.0	3.2	1.9	
14	8.7	5.5	13.2	13.0	14.9	4.2	6.3	2.8	2.8	2.0	5.8	4.5	14	8.6	2.6	12.4	5.0	17.0	2.8	2.7	1.0	.6	.0	3.3	2.0	
15	8.0	6.9	11.6	13.1	15.2	4.0	5.1	2.8	2.8	2.6	5.6	4.4	15	7.8	3.0	12.6	6.0	17.3	2.7	3.1	1.0	.5	.1	3.4	1.8	
16	6.9	7.6	10.1	11.0	14.4	4.0	4.5	3.1	2.8	2.0	5.2	4.5	16	6.5	3.6	12.5	6.9	17.3	2.7	3.0	1.4	.4	.0	3.2	1.7	
17	6.5	8.0	9.0	8.9	12.6	4.3	4.2	3.2	2.7	2.5	5.0	4.2	17	6.1	4.5	11.9	7.3	17.2	2.9	3.6	1.4	.4	.0	3.0	1.6	
18	6.9	7.5	8.5	8.0	10.7	7.1	4.0	3.4	2.6	2.6	4.6	4.2	18	6.2	4.8	10.8	7.2	16.9	3.2	2.8	1.3	.3	.0	2.7	1.6	
19	6.8	6.6	8.1	7.3	9.2	6.7	3.8	4.0	2.5	2.5	4.3	4.2	19	5.9	5.0	9.1	6.3	16.3	4.0	2.4	1.5	.3	.0	2.5	1.5	
20	7.0	6.2	7.4	6.7	8.5	7.0	3.7	7.6	2.5	2.6	4.4	4.0	20	6.1	4.6	7.6	5.5	15.8	4.6	2.2	2.2	.2	.0	2.2	1.5	
21	7.9	6.0	7.3	6.4	7.7	6.4	4.0	7.5	2.5	2.5	4.4	3.8	21	7.4	4.2	6.5	4.7	15.6	7.0	2.1	2.0	.1	.0	2.0	1.5	
22	10.2	5.6	7.7	6.3	7.2	6.2	6.3	6.5	2.5	2.9	4.4	4.0	22	8.8	3.8	5.9	4.2	14.7	7.2	2.2	2.6	.1	.0	1.8	1.6	
23	11.4	5.4	7.6	5.5	6.9	6.2	4.9	5.6	2.4	2.6	4.4	4.2	23	10.0	3.5	5.4	4.0	12.8	7.2	2.5	3.2	.0	.2	1.6	2.6	
24	10.3	5.0	9.4	5.5	6.5	5.8	4.7	4.7	2.4	2.6	4.3	4.2	24	9.7	3.3	5.5	3.7	11.6	6.5	3.1	3.1	.0	.1	1.5	3.0	
25	8.5	5.2	11.4	5.3	6.1	5.3	4.4	4.3	2.4	2.6	4.3	4.3	25	9.0	3.0	5.9	3.3	10.2	5.5	3.7	2.8	.1	.1	1.5	3.0	
26	7.0	6.0	11.9	5.1	6.0	5.2	4.1	4.0	2.4	2.7	4.2	4.6	26	7.6	2.8	8.5	3.1	9.0	4.6	3.5	2.2	.2	.0	1.4	3.0	
27	6.0	7.8	13.5	5.1	5.7	6.8	5.0	3.7	2.4	2.7	4.1	4.6	27	6.0	2.7	9.1	2.9	7.5	4.4	3.3	1.9	.1	.0	1.3	3.0	
28	6.0	7.6	12.8	5.0	5.4	7.5	4.6	3.6	2.8	2.6	3.9	4.6	28	5.4	2.9	9.1	2.8	6.1	5.0	3.0	1.7	.2	.0	1.3	3.0	
29	5.9	-----	11.1	5.0	5.4	8.3	3.9	3.6	3.0	2.7	4.0	4.8	29	4.4	-----	9.2	2.7	5.1	6.0	2.9	1.4	.3	.0	1.3	3.0	
30	5.6	-----	9.5	5.0	5.9	7.2	4.0	3.4	2.7	2.6	3.9	4.8	30	3.8	-----	9.0	2.7	4.7	6.5	2.6	1.1	.3	.0	1.3	3.0	
31	5.2	-----	8.6	-----	6.1	-----	3.9	3.3	-----	2.6	4.7	4.7	31	3.5	-----	7.9	-----	4.9	-----	2.2	1.1	-----	.1	-----	1.3	3.0
M'n.	7.4	5.7	9.5	7.1	11.8	5.5	5.2	3.9	2.8	2.6	4.2	4.1	M'n.	5.5	3.1	7.2	4.7	12.3	4.4	3.7	1.7	.5	.1	1.9	1.5	
WABASH RIVER AT TERRE HAUTE, IND.													WABASH RIVER AT MOUNT CARMEL, ILL.													
Wabash—Ohio													Wabash—Ohio													
[Flood stage, 14 feet]													[Flood stage, 19 feet]													
1	2.8	3.2	4.5	6.5	2.7	4.8	5.9	1.7	0.6	0.4	0.0	1.2	1	4.4	5.0	3.0	13.5	3.7	8.4	8.7	4.3	1.7	0.8	0.9	2.0	
2	2.2	2.9	5.0	5.8	3.4	4.5	4.0	1.7	.0	.1	.0	1.0	2	4.2	4.8	3.7	11.6	3.7	7.6	8.0	4.0	1.7	.8	.8	1.9	
3	2.4	2.8	3.8	5.3	12.3	4.0	3.9	1.3	.0	.1	.0	1.0	3	3.7	4.3	3.9	10.0	6.0	7.4	7.3	3.8	1.6	.8	.8	1.8	
4	1.8	2.7	3.4	4.9	14.8	3.9	5.0	1.1	1.4	.1	.0	1.0	4	3.4	4.0	3.5	8.7	11.6	7.9	7.3	2.9	1.6	.8	.8	1.8	
5	1.6	2.6	3.2	4.7	15.5	3.4	7.8	.9	1.4	.1	.6	.8	5	2.5	3.5	3.2	7.8	14.5	7.5	6.2	3.0	1.5	.7	.8	1.7	
6	1.8	2.4	3.2	4.5	16.2	3.2	7.9	1.7	1.0	.0	2.2	.8	6	2.5	3.5	3.0	7.1	16.1	7.0	6.9	2.9	1.5	.7	1.3	1.7	
7	2.4	2.3	3.5	4.1	17.6	3.2	6.0	1.7	1.0	.1	3.4	1.0	7	2.4	3.0	3.0	7.6	17.5	6.5	7.3	2.8	1.8	.6	1.6	1.6	
8	2.8	1.8	5.4	3.9	18.0	3.2	5.1	1.8	.8	.0	2.9	.9	8	2.8	3.0	3.0	8.4	18.5	7.1	7.4	2.8	1.8	.6	2.2	1.6	
9	6.0	1.9	6.7	4.0	18.1	2.9	4.8	1.8	.8	.0	2.4	.9	9	3.0	2.9	3.0	8.5	19.4	6.7	7.1	2.5	1.7	.6	2.7	1.7	
10	10.3	3.1	8.8	4.4	17.8	2.7	4.2	1.0	.4	.0	2.2	1.8	10	4.0	2.9	4.3	8.3	20.3	6.2	6.9	2.3	1.7	.6	2.7	1.9	
11	12.2	3.5	11.3	4.4	17.9	2.6	3.5	.8	.4	.0	2.9	2.1	11	5.6	2.8	5.9	8.0	21.0	6.0	6.6	2.4	1.7	.5	3.0	2.1	
12	12.4	2.9	13.7	4.7	17.8	2.6	3.0	.6	.5	.0	3.4	2.2	12	7.0	3.5	11.5	8.5	21.4	5.5	6.0	2.1	1.6	.5	3.4	2.5	
13	11.0	2.8	14.0	6.0	17.5	2.4	2.6	.6	.5	.0	4.0	2.2	13	7.8	3.6	15.1	8.9	21.4	5.5	5.1	2.0	1.4	.5	3.9	2.6	
14	8.8	3.0	13.6	8.0	17.3	2.4	4.3	.5	.3	.0	4.2	2.0	14	7.8	3.4	16.2	8.9	21.5	5.2	5.7	1.9	1.4	.6	4.0	2.8	
15	7.4	4.3	12.4	9.8	17.4	2.4	5.0	.5	.3	.0	3.9	1.9	15	7.2	3.6	16.9	8.8	21.3	5.4	4.0	1.8	1.4	.7	4.1	2.9	
16	6.3	5.7	10.8	9.9	16.9	2.1	3.8	.6	.3	.0	3.4	1.7	16	7.0	4.0	17.5	9.6	21.0	5.3	4.2	1.8	1.3	.8	4.0	2.9	
17	5.7	6.4	9.1	8.6	16.2	2.0	2.8	.8	.3	.0	3.0	1.7	17	6.8	4.2	17.6	10.0	20.7	5.3	4.5	2.6	1.3	.9	3.9	2.7	
18	5.8	6.1	8.1	6.8	15.2	2.9	2.3	2.2	.3	.1	3.0	1.3	18	8.0	5.2	17.2	9.7	20.5	7.7	4.1	2.7	1.2	.9	3.6	2.6	
19	5.6	5.5	7.3	5.8	13.6	8.0	2.0	2.0	.3	.0	2.2	1.5	19	8.2	5.3	16.1	8.7	20.4	9.5	3.4	2.5	1.2	.8	3.3	2.5	
20	5.6	4.6	6.7	5.1	11.0	9.5	1.7	1.8	.3	.1	2.1	1.6	20	8.4	5.1	14.4	7.5	20.4	10.5	3.1	2.9	1.0	.8	3.1	2.4	
21	7.8	4.1	6.1	4.5	9.5	7.8	1.9	3.7	.0	.1	2.0	1.5	21	9.4	4.6	12.5	6.6	20.8	11.5	2.9	3.1	1.0	.8	2.9	2.2	
22	11.5	3.9	5.8	4.1	8.5	7.2	2.7	4.3	.0	.1	2.0	1.0	22</													

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(Omission of page number under "gage reading" indicates the record is short and broken, and is not published. A copy of the available readings may be obtained by application to the Chief of the Weather Bureau.)

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UNITED STATES DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

DAILY RIVER STAGES

AT RIVER GAGE STATIONS ON THE
PRINCIPAL RIVERS OF THE
UNITED STATES

REFERENCE
DO NOT CIRCULATE

VOLUME XXXIV
1936

Community Affairs File

COMPILED BY MERRILL BERNARD
PRINCIPAL HYDROLOGIST

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UNITED STATES
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WASHINGTON : 1938

INTRODUCTION

This volume, containing the daily river stages for 1936, is the thirty-fourth of a series of Daily River Stage on the Principal Rivers of the United States, the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

- Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.
- II. Stages of the Mississippi River and of its Principal Tributaries, except the Ohio River, 1860 to 1889.
- III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.

DAILY STAGES AT RIVER GAGE STATIONS ON THE PRINCIPAL RIVERS OF THE UNITED STATES

Volume IV. 1890 to 1892.	Volume XII. 1913 and 1914.	Volume XX. 1922.	Volume XXVII. 1929.
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XI. 1911 and 1912.	XIX. 1921.		

Volumes XVIII to XXXIV can be bought from the Superintendent of Documents, Washington, D. C. volumes I to XVII are out of print and cannot be supplied.

The river stages are the vertical distances, in feet and tenths, of the water surface above or below the zero of the gage. The zero has, as a rule, been set at or near the lowest known water.

Gage readings are usually made at 8 a. m., seventy-fifth meridian time, east of the Continental Divide, and at 7 a. m., local time, west of the divide.

Extreme stages for a month, not observed at the regular time for reading the gage, are printed as a note at the foot of the table or page. This practice was begun in 1907.

In some cases the zero planes of gages have been changed, either through accident or through necessary removals. The stations at which changes have occurred are given in a table headed "Corrigenda", and the corrections required to reduce previous readings to the zero now in use are also given in the table if they have not been previously published.

The country is divided into districts, and each district has a designated center at which the administrative and forecasting work is carried on. The following table shows the centers, and their districts. Superior figure (1) opposite a center indicates that stage forecasts are made daily throughout the year, and (2) indicates that stage forecasts are made daily during seasons of navigation and in times of flood. At those centers not bearing reference, forecasts are made only during times of flood.

ADMINISTRATIVE AND FORECASTING CENTERS AND THEIR DISTRICTS

Albany, N. Y.-----	Hudson River and tributaries.
Albuquerque, N. Mex.-----	Pecos River in New Mexico; Rio Grande and tributaries at and above El Paso, Tex.; Canadian River and tributaries in New Mexico.
Asheville, N. C.-----	French Broad River and tributaries above North Carolina-Tennessee State line.
Atlanta, Ga.-----	Apalachicola River and tributaries.
Augusta, Ga.-----	Savannah and Ogeechee Rivers and tributaries.
Binghamton, N. Y.-----	Susquehanna River and tributaries at and above Binghamton, N. Y.
Bismarck, N. Dak.-----	Missouri River and tributaries at and above Bismarck, N. Dak.
Brownsville, Tex.-----	Rio Grande below Laredo, Tex.
Cairo, Ill. ¹ -----	Ohio River below the mouth of the Wabash; Mississippi River from and including Cape Girardeau, Mo., to and including New Madrid, Mo.; Tennessee River and tributaries below Decatur, Ala.
Charleston, S. C.-----	Rivers of northeastern South Carolina.
Chattanooga, Tenn. ¹ -----	Tennessee River and tributaries from below Knoxville, Tenn., to and including Decatur, Ala.
Cincinnati, Ohio ¹ -----	Ohio River and southern tributaries from and including the mouth of the Kanawha, to and including the mouth of the Kentucky; the northern tributaries of the Ohio from Dam No. 31 to a point opposite the mouth of the Kentucky.
Columbia, S. C.-----	Santee River and tributaries.
Columbus, Ohio.-----	The Sandusky River; the northern tributaries of the Ohio River from Dam No. 17 to Dam No. 31.
Concordia, Kans.-----	Republican River and tributaries.
Dallas, Tex. ¹ -----	Trinity River and tributaries above Long Lake, Tex.
Davenport, Iowa ² -----	Mississippi River and tributaries from below Dubuque, Iowa, to and including the mouth of the Iowa but not including Keithsburg, Ill.
Del Rio, Tex.-----	Rio Grande from below El Paso to and including Laredo, Tex., and the Pecos River in Texas.
Denver, Colo.-----	Colorado River and tributaries, except the Gila; Arkansas River and tributaries in Colorado.
Des Moines, Iowa.-----	Des Moines River and tributaries above Eldon, Iowa.
Dubuque, Iowa ² -----	Mississippi River and tributaries from below La Crosse, Wis., to and including Dubuque, Iowa; the Wisconsin River and tributaries.

Evansville, Ind. ¹ -----	Ohio River and tributaries from below Hawesville, Ky., to the mouth of, but not including, the Wabash.
Fort Smith, Ark-----	Arkansas River and tributaries (except the Neosho in Kansas, and the Canadian) from the Kansas-Oklahoma line to and including Van Buren, Ark.
Fort Wayne, Ind-----	Maumee River and tributaries.
Fresno, Calif-----	San Joaquin River and tributaries above the mouth of the Tuolumne.
Grand Rapids, Mich-----	Grand River and tributaries below Grand Ledge, Mich.
Harrisburg, Pa. ¹ -----	Susquehanna River and tributaries below Binghamton, N. Y.
Hartford, Conn-----	Connecticut River and tributaries.
Houston, Tex. ¹ -----	Sabine, Neches, and Brazos Rivers; Trinity River at and below Long Lake, Tex.
Indianapolis, Ind-----	Wabash River and tributaries.
Kansas City, Mo-----	Missouri River and tributaries, except the Kansas River at and above Lawrence, Kans., from the mouth of the Platte to and including Lexington, Mo.
Keokuk, Iowa-----	Mississippi River and tributaries (except the Iowa and the Des Moines above Eldon, Iowa), from and including Keithsburg, Ill., to and including Louisiana, Mo.
Knoxville, Tenn. ¹ -----	Tennessee River and tributaries at and above Knoxville, Tenn., except French Broad River and tributaries above North Carolina-Tennessee State line.
La Crosse, Wis. ² -----	Mississippi River and tributaries from and including the mouth of the St. Croix River, to and including La Crosse, Wis.
Lansing, Mich-----	Grand River and tributaries at and above Grand Ledge, Mich.; Saginaw River and tributaries.
Little Rock, Ark. ¹ -----	Arkansas River and tributaries below Van Buren, Ark.; White River and tributaries, except the Black in Missouri; Ouachita River and tributaries in Arkansas.
Louisville, Ky. ¹ -----	Ohio River and tributaries from below mouth of the Kentucky to and including Hawesville, Ky.
Macon, Ga-----	Altamaha River and tributaries.
Memphis, Tenn. ¹ -----	Mississippi River from below New Madrid, Mo., to the mouth of the White; St. Francis River and tributaries.
Meridian, Miss-----	Pascagoula and Pearl Rivers and tributaries.
Minneapolis, Minn-----	Mississippi River and tributaries above the mouth of the St. Croix River.
Mobile, Ala. ¹ -----	Tombigbee River and tributaries.
Montgomery, Ala. ¹ -----	Alabama River and tributaries.
Moorhead, Minn-----	Red River of the North and tributaries below the Canadian line.
Nashville, Tenn. ¹ -----	Cumberland River and tributaries.
New Orleans, La. ¹ -----	Mississippi River below the mouth of the Big Black; Red River below Shreveport, La.; Ouachita and Black Rivers and tributaries in Louisiana; Atchafalaya River.
Oklahoma City, Okla-----	Canadian River and tributaries east of the eastern boundary of New Mexico.
Omaha, Nebr-----	Missouri River and tributaries from below Sioux City, Iowa, to and including the mouth of the Platte.
Parkersburg, W. Va. ¹ -----	Ohio River and southern tributaries from below Dam No. 13 to and including Point Pleasant, W. Va.
Pensacola, Fla-----	Escambia and Choctawhatchee Rivers and tributaries.
Philadelphia, Pa-----	Delaware River and tributaries.
Phoenix, Ariz-----	Gila River and tributaries.
Pittsburgh, Pa. ¹ -----	Ohio River and tributaries at and above Dam No. 13.
Portland, Oreg. ¹ -----	Columbia River and tributaries.
Raleigh, N. C-----	The rivers, and their tributaries, that enter the Atlantic Ocean on the North Carolina coast.
Richmond, Va-----	James River and tributaries.
Sacramento, Calif-----	Rivers in the central valleys of California, except the San Joaquin above the mouth of the Tuolumne.
St. Louis, Mo. ¹ -----	Mississippi River and its tributaries from Louisiana to Cape Girardeau, Mo., but not including either terminal (see Kansas City and Topeka centers for Missouri and Osage limits); Black River in Missouri.
San Antonio, Tex-----	Colorado, Guadalupe, Nueces, and San Antonio Rivers and tributaries.
Shreveport, La. ¹ -----	Red River and tributaries at and above Shreveport, La.
Sioux City, Iowa-----	Missouri River and tributaries from below Bismarck, N. Dak., to and including Sioux City, Iowa.
Topeka, Kans-----	Kansas River and tributaries at and above Lawrence, Kans., except the Republican River; Neosho and Osage Rivers and tributaries in Kansas.
Vicksburg, Miss. ¹ -----	Mississippi River from the mouth of the White to the mouth of the Big Black; Yazoo and Big Black Rivers and tributaries.
Washington, D. C-----	Potomac River and tributaries.
Wichita, Kans-----	Arkansas River and tributaries in Kansas.

River stations, arranged by drainage areas, and miscellaneous information pertaining thereto—Continued

Station	River	Length of record ¹	Elevation of gage zero above mean sea level ²	Distance of gage above mouth of river ³	Drainage area above gage ⁴	Flood stage	Extreme stages from gage readings ⁵			
							Highest	Date	Lowest	Date
MISSISSIPPI SYSTEM—continued										
Ohio Basin—Continued										
Lock No. 10, Zanesville, Ohio	Muskingum	Years	Feet	Miles	Sq. miles	Feet	Feet		Feet	
Lock No. 7, McConnellsville, Ohio	do.	46	665.3	75.8	6,840	25	51.8	Mar. 27, 1913	4.3	Oct. 14, 1913
Lock No. 3, Lowell, Ohio	do.	24	635.0	48.2	7,411	22	49.1	do.	3.4	Oct. 9, 1913
Lock No. 1, Marietta, Ohio:	do.	8	588.1	13.9	7,978	25	30.3	Aug. 10, 1935	5.8	Aug. 12, 1913
(Upper gage)	do.	23	575.38	.2	8,038	28	39.3	Mar. 20, 1936	7.9	Aug. 19, 1913
(Lower gage)	do.	23	567.12	.2	8,038	35	48.1	do.	7.0	Feb. 2, 1913
Glenville, W. Va.	Little Kanawha	36	697.79	103.0	365	23	33.6	Nov. 16, 1926	-.9	Nov. 10, 1913
Creston, W. Va.	do.	36	621.71	48.0	1,214	20	32.0	Mar. 14, 1918	-3.0	Nov. 4, 1913
Athens, Ohio	Hocking	21	615.59	31.6	944	17	21.9	Apr. 16, 1922	2.2	Oct. 11, 1913
Camden on Gauley, W. Va.	Gauley	21	2,003.28	71	238	23				
Summersville, W. Va.	do.	17		42	664	18	28.75	July 4, 1932	.64	Aug. 10, 1913
Ivanhoe, Va.	New	20	1,941.9	194	1,311	15	20.0	Oct. 2, 1929	.0	Aug. 1, 1913
Radford, Va.	do.	41		145	2,761	14	32.3	July 16, 1916	-2.0	Nov. 3, 1900
Glenlyn, Va.	do.	11	1,492.0	95	3,859	11	14.8	Oct. 3, 1929	.1	Sept. 29, 1912
Hinton, W. Va.	do.	50	1,351.04	63	6,288	14	20.2	Sept. 13, 1878	.7	Sept. 27, 1899
Clay, W. Va.	Elk	22	676.60	53.2	1,016	18	32.4	Mar. 14, 1918	.1	July 27, 1913
Kanawha Falls, W. Va.	Kanawha	23	622.88	95.0	8,415	25	31.7	July 17, 1916	-.9	Oct. 29, 1912
London Dam, London, W. Va.	do.	3		82.8	8,552	43				
Charleston, W. Va.	do.	64	558.66	58.4	10,495	34	41.6	Sept. 14, 1878	-1	Sept. 15, 1883
Lock No. 6, S. Charleston, W. Va.	do.	50	547.90	54.0	10,587	42	48.9	Mar. 5, 1899	1.65	Aug. 26, 1880
Logan, W. Va.	Guyandot	15	639.08	81.4	859	20	27.0	Jan. 28, 1918	.0	Oct. 10, 1912
Wayne, W. Va.	Twelvepole Creek	12	604.74	28.8	305	25	28.3	June 30, 1928	.2	Oct. 5, 1913
Williamson, W. Va.	Tug Fork	30		57.3	911	38	38.1	Jan. 29, 1918	-.8	Oct. 2, 1909
Pikeville, Ky.	Levisa Fork	29	634.03	88.5	1,225	35	49.0	Jan. 28, 1918	-.3	Sept. 6, 1913
Paintsville, Ky.	do.	9	566.67	38.5		40	34.98	Mar. 13, 1935	1.06	July 23, 1913
Lock No. 3, Louisa, Ky.	Big Sandy	48	516.81	26.6	3,821	45	48.0	Mar. 6, 1899	.7	Nov. 18, 1883
Delaware, Ohio	Olentangy	27	848.58	26.2	415	9	25.5	Mar. 25, 1913	-1	Dec. 15, 1913
La Rue, Ohio	Scioto	21	910.19	196.2	255	11	15.0	Mar. 20, 1927	1.9	July 31, 1911
Prospect, Ohio	do.	30	891.72	172.2	554	10	15.0	Mar. 22, 1927	.2	Oct. 2, 1911
Columbus, Ohio	do.	39	700.03	131.9	1,613	22	22.9	Mar. 25, 1913	-.8	July 27, 1912
Circleville, Ohio	do.	25	643.03	100.4	3,217	14	28.2	Mar. 26, 1913	1.8	Aug. 17, 1912
Chillicothe, Ohio	do.	29	594.02	70.4	3,847	16	30.8	do.	1.0	Sept. 27, 1911
Kings Mills, Ohio	Little Miami	12	587.10	28.1	1,048	17	33.7	do.	.5	July 3, 1911
Cynthiana, Ky.	South Fork	20		46	641	20	22.6	Dec. 24, 1921	.5	June 15, 1913
Farmers, Ky.	Licking	20	646.44	172	782	25	31.1	Feb. 9, 1918	1.1	July 11, 1913
Falmouth, Ky.	do.	50	511.38	51.2	2,267	28	38.5	Dec. 25, 1921	-.1	Sept. 6, 1913
Pleasant Hill, Ohio	Stillwater	21	846.60	29.2	502	13	16.4	Feb. 20, 1929	.7	Aug. 8, 1913
Springfield, Ohio	Mad	23	881.95	23.6	477	11	15.1	do.	1.4	Feb. 9, 1913
Brookville, Ind.	Whitewater	19	595.73	27	1,230	20	25.56	do.	.2	Aug. 24, 1913
Sidney, Ohio	Miami	23	924.74	134.8	545	12	14.2	Mar. 21, 1927	.0	Sept. 12, 1913
Piqua, Ohio	do.	26	844.00	122.1	850	17	29.1	Mar. 25, 1913	.7	Aug. 9, 1913
Tippecanoe City, Ohio	do.	14	786.77	104.5	955	27	13.8	Mar. 21, 1927	.5	Aug. 10, 1913
Dayton, Ohio	do.	44	721.01	84.5	2,515	21	31.7	Mar. 25, 1913	-.1	Sept. 5, 1912
Miamisburg, Ohio	do.	14	678.44	68.6	2,719	22	19.0	Feb. 27, 1929	-.3	Oct. 17, 1912
Franklin, Ohio	do.	14	658.41	61.3	2,731	16	16.1	May 15, 1933	.0	Aug. 3, 1913
Middletown, Ohio	do.	14	624.65	53.6	3,158	15	19.0	Feb. 27, 1929	.0	Oct. 8, 1912
Hamilton, Ohio	do.	27	560.00	35.3	3,637	17	43.1	Mar. 26, 1913	-1.7	Oct. 21, 1913
Hazard, Ky.	North Fork	12		96.0	442	20	37.0	May 30, 1927	-.4	Aug. 1, 1912
Jackson, Ky.	do.	31	698.67			28	41.9	do.	.3	July 2, 1913
Lock No. 14, Heidelberg, Ky.	Kentucky	20	627.2	249.3	2,430	30	34.4	Mar. 21, 1920	4.8	Nov. 10, 1913
Lock No. 10, Ford, Ky.	do.	31	550.8	176.3	3,948	30	35.1	Mar. 29, 1913	9.1	June 27, 1913
Lock No. 7, Highbridge, Ky.	do.	36	503.66	117.0	5,024	30	34.8	Dec. 26, 1926	4.7	Nov. 24, 1911
Lock No. 4, Frankfort, Ky.	do.	51	462.17	65.0	5,390	31	38.3	Mar. 28, 1913	3.2	Nov. 1, 1905
Bowling Green, Ky.	Barren	13	408.04	29.5	1,875	20	36.5	Jan. 3, 1919	.0	Oct. 18, 1912
Lock No. 6, Brownsville, Ky.	Green	20	403.26	180.6	2,751	28	52.8	Jan. 10, 1913	6.1	Sept. 10, 1911
Lock No. 4, Woodbury, Ky.	do.	38	373.80	149.5	5,446	33	54.4	Jan. 1, 1913	5.0	Sept. 17, 1902
Lock No. 2, Rumsey, Ky.	do.	38	343.04	62.8	7,681	34	47.9	Mar. 31, 1904	3.7	July 28, 1902
Anderson, Ind.	West Fork	26		242.6	428	8	22.9	Mar. 25, 1913	3.8	June 19, 1911
Noblesville, Ind.	do.	23		215.1	844	14	18.8	Jan. 31, 1916	3.0	Aug. 29, 1911
Indianapolis, Ind.	do.	26		185.3	1,590	12	29.5	Mar. 26, 1913	2.0	July 19, 1913
Elliston, Ind.	do.	29	472.94	78.2	4,470	18	31.3	Mar. 27, 1913	5.5	Jan. 11, 1909
Edwardsport, Ind.	do.	14		32.6	4,985	12	20.3	Jan. 14, 1930	2.2	Jan. 1, 1911
Seymour, Ind.	East Fork	14	550.7	167.7	2,292	14	16.5	Feb. 14, 1936	.3	Aug. 22, 1913
Williams, Ind.	do.	16	472.56	79.2	4,584	10	20.6	Jan. 14, 1930	-2.0	Jan. 1, 1911
Shoals, Ind.	do.	29	442.21	56.0	4,828	25	42.2	Mar. 28, 1913	1.2	Aug. 24, 1913
Petersburg, Ind.	White	2	400.00	47.8	11,100	16	20.8	May 10, 1935	.0	Aug. 26, 1913
Hazleton, Ind.	do.	13	383.26	18.9	11,200	16	30.4	Jan. 17, 1930	.7	Aug. 27, 1913
Bluffton, Ind.	Wabash	26		421.8	555	10	20.0	Mar. 26, 1913	.2	July 26, 1913
Wabash, Ind.	do.	14			1,740					
Logansport, Ind.	do.	19		343.2	3,860	17	25.3	Mar. 26, 1913	2.2	Dec. 4, 1911
La Fayette, Ind.	do.	23	504.14	301.4	7,324	11	25.5	Feb. 27, 1936	.5	July 26, 1913
Covington, Ind.	do.	10	473.97	260.5	8,309	16	28.8	Feb. 29, 1936	1.2	Oct. 5, 1912
Terre Haute, Ind.	do.	38	445.78	204.4	12,333	14	31.3	Mar. 27, 1913	-2.0	Feb. 6, 1899
Vincennes, Ind.	do.	20	396.43	117.2	13,840	14	25.2	Jan. 17, 1930	-.8	June 22, 1913
Mount Carmel, Ill.	do.	53	371.46	83.9	28,506	19	31.0	Mar. 30, 1913	-.2	Nov. 7, 1895
New Harmony, Ind.	do.	3	353.20	44.0		15	17.2	May 15, 1935	.1	Oct. 16, 1913
New River, Tenn.	New	29	1,092.07	8.0	383	20				
Rock Island, Tenn.	Caney Fork	26	647.41	90.3	1,656	30	40.6	Mar. 23, 1929	.0	Nov. 28, 1913
Williamsburg, Ky.	Cumberland	20	892.40	592.7	1,673	19	30.4	Mar. 25, 1929	-2.5	Sept. 16, 1911
Burnside, Ky.	do.	52	585.60	518.4	4,949	50	69.4	Mar. 24, 1929	-1.6	Nov. 8, 1899
Celina, Tenn.	do.	33	489.47	383.1	7,323	28	57.11	Dec. 29, 1926	-.2	Oct. 6, 1911
Carthage, Tenn.	do.	52	437.87	308.4	10,754	40	58.7	Dec. 30, 1926	-.4	Nov. 16, 1902
Nashville, Tenn.	do.	63	368.17	192.6	12,878	40	56.2	Jan. 1, 1927	-.1	Sept. 13, 1887
Clarksville, Tenn.	do.	36	330.95	127.0	14,504	46	60.0	Jan. 2, 1927	-1.0	Sept. 18, 1913
Lock F, Eddyville, Ky.	do.	19	289.61	43.6	17,500	50	68.5	Jan. 5, 1927	-.7	Oct. 14, 1894
Mendota, Va.	North Fork	31	1,331.20	38.3	530	8	17.5	June 14, 1907	.3	Oct. 13, 1883
Elizabethton, Tenn.	Watauga	27	1,486.03	24.4	665	14	15.6	July 16, 1916	1.0	Sept. 28, 1913
Bluff City, Tenn.	South Fork	37	1,368.09	34.2	810	12	15.0	May 22, 1901	-.2	Dec. 1, 1903
Rogersville, Tenn.	Holston	35	1,057.04	103.8	3,033	13		Jan. 29, 1918		Oct. 23, 1904
Embsville, Tenn.	Nolichucky	17	1,519.37	77	804	8		Aug. 16, 1928	1.06	Oct. 28, 1913
Rosman, N. C.	French Broad	1		211.3	69	8				
Asheville, N. C.	do.	34	1,959.9	147.3	949	6	25.6	July 16, 1916	.0	Nov. 1, 1904
Hot Springs, N. C.	do.	3	1,311.56		1,570	8	8.8	Jan. 19, 1936		
Dandridge, Tenn.	do.	32	902.83	46.5	4,428	12	22.0	July 17, 1916	-.6	Sept. 9, 1913

See footnotes at end of table.

RIVER GAGE READINGS

MISSISSIPPI SYSTEM—OHIO BASIN—Continued

1936	January	February	March	April	May	June	July	August	September	October	November	December	1935	January	February	March	April	May	June	July	August	September	October	November	December
WABASH RIVER AT LOGANSFORT, IND.													WABASH RIVER AT COVINGTON, IND.												
Wabash—Ohio													Wabash—Ohio												
[Flood stage, 17 feet]													[Flood stage, 16 feet]												
1	3.4	3.6	10.1	4.9	4.3	3.1	2.6	2.9	2.8	3.1	3.4	2.8	1	4.5	5.1	27.0	9.5	7.4	3.9	2.8	2.4	3.2	4.1	5.3	4.7
2	3.2	3.6	8.5	4.4	6.1	3.1	2.7	2.8	2.8	3.3	3.3	3.1	2	4.5	4.9	24.1	8.4	9.7	3.8	2.8	2.3	3.0	4.0	5.4	4.6
3	3.2	3.6	7.2	4.2	9.4	3.0	2.8	2.8	2.8	3.2	11.1	3.1	3	4.6	4.8	22.8	7.6	17.0	3.8	2.8	2.3	2.8	4.0	16.8	4.5
4	3.1	3.7	6.3	4.0	8.8	3.0	2.7	2.8	2.8	3.2	11.3	3.1	4	4.8	4.9	20.6	7.1	18.1	3.8	2.8	2.3	2.8	4.0	19.6	4.5
5	3.8	4.1	5.9	3.9	6.9	3.0	2.7	2.7	2.8	3.1	9.6	3.1	5	4.6	5.6	17.2	6.8	19.0	3.7	2.8	2.2	2.8	3.7	22.2	4.4
6	3.3	4.2	5.4	3.8	5.7	3.0	2.6	2.8	2.8	3.0	8.2	3.1	6	4.8	5.0	13.9	6.5	18.3	3.6	2.8	2.2	2.8	3.8	23.2	4.4
7	3.3	4.2	4.9	3.9	5.0	3.0	2.6	2.5	2.8	3.2	6.9	3.2	7	4.7	5.4	11.8	6.6	15.6	3.5	2.8	2.3	2.6	3.8	22.4	4.3
8	3.3	4.0	4.6	4.2	4.5	3.8	2.7	2.7	2.8	3.4	6.0	3.3	8	5.1	5.6	10.3	6.4	12.3	3.7	2.7	2.3	2.5	4.2	20.9	4.2
9	3.3	4.0	4.4	4.6	4.2	3.8	2.5	2.7	2.5	3.3	5.3	3.2	9	5.1	5.6	9.6	6.4	10.2	3.4	2.7	2.3	2.5	4.4	18.4	4.2
10	3.3	3.9	4.3	4.2	3.9	3.5	2.7	2.7	2.7	3.3	4.8	3.2	10	5.3	5.6	8.9	7.0	8.9	5.3	2.6	2.3	2.4	7.1	14.8	4.2
11	3.4	3.8	4.2	4.0	3.8	3.3	2.5	2.4	2.7	3.6	4.5	3.1	11	5.5	5.1	8.5	6.8	8.1	5.1	2.6	2.3	2.3	8.1	11.8	4.4
12	3.4	3.9	4.2	4.0	3.7	3.2	2.7	2.6	3.1	3.7	4.2	3.1	12	5.8	5.0	8.2	6.3	7.3	4.3	2.6	2.3	2.9	6.8	10.2	4.4
13	3.7	3.9	4.2	4.1	3.7	3.1	2.7	2.4	3.7	3.8	4.0	3.1	13	6.2	5.0	7.9	6.2	7.0	4.2	2.4	2.3	7.4	6.2	9.2	4.3
14	4.4	3.9	4.1	4.2	3.6	3.1	2.7	2.6	3.7	3.6	3.8	3.1	14	6.7	5.2	7.8	6.2	6.7	4.0	2.4	2.2	7.8	5.6	8.0	4.1
15	4.2	4.0	4.1	4.1	3.5	3.0	2.4	2.0	3.6	3.4	3.7	3.1	15	6.3	5.4	7.4	6.1	6.2	3.9	2.4	2.2	7.5	5.4	7.7	3.9
16	4.3	4.2	5.4	3.9	3.6	3.0	2.7	2.7	3.3	3.4	3.7	3.0	16	6.6	5.0	7.6	6.2	6.0	3.5	2.4	2.2	0.1	4.9	7.3	3.9
17	4.0	4.2	5.2	3.7	3.4	3.0	2.4	2.7	3.1	3.4	3.6	3.0	17	6.4	5.6	8.8	5.9	5.6	3.6	2.4	2.4	5.1	4.5	6.9	4.1
18	3.7	4.3	4.8	3.6	3.4	3.0	2.4	3.0	3.0	3.3	3.5	3.0	18	5.9	5.6	9.1	5.6	5.6	3.4	2.4	2.3	4.4	4.2	6.0	4.0
19	3.6	4.3	4.4	3.5	3.3	3.0	2.4	2.9	2.9	3.3	3.5	3.0	19	5.6	5.6	8.6	5.4	5.8	3.2	2.4	2.2	3.8	4.2	6.2	4.0
20	3.6	4.5	4.3	3.5	3.4	3.0	2.6	2.8	2.8	3.2	3.4	3.0	20	5.1	5.5	7.7	5.2	5.5	3.4	2.3	2.4	3.5	4.2	5.9	3.9
21	3.6	4.5	4.1	3.5	3.4	2.8	2.7	2.8	2.8	3.2	3.4	3.1	21	5.2	5.6	7.5	5.0	5.3	3.1	2.3	2.5	3.3	4.1	5.8	4.0
22	3.5	4.4	4.1	3.4	3.3	2.9	2.7	2.8	2.8	3.2	3.4	3.1	22	5.1	5.7	7.3	5.0	4.9	3.1	2.3	2.7	3.2	3.9	5.6	4.0
23	3.4	4.3	4.1	3.4	3.3	2.6	2.7	2.8	2.8	3.3	3.3	3.0	23	5.1	5.8	7.0	4.9	4.9	3.0	2.3	2.5	3.0	4.4	5.7	3.9
24	4.3	4.6	4.3	3.4	3.2	2.7	2.7	2.9	2.8	3.5	3.3	3.0	24	5.1	8.1	7.6	4.8	4.8	3.0	2.2	2.4	2.8	4.0	5.3	3.7
25	4.2	12.1	8.8	3.4	3.2	2.6	2.7	2.7	2.8	3.3	3.3	3.0	25	5.5	13.8	8.8	4.8	4.6	3.0	2.2	2.8	2.8	4.7	5.3	3.7
26	4.1	13.7	8.1	3.3	3.2	2.7	2.7	2.9	2.7	3.4	3.3	3.0	26	5.9	21.7	14.2	4.7	4.6	2.9	2.2	2.8	2.9	5.2	5.0	3.8
27	3.9	17.4	6.8	3.3	3.2	2.7	3.0	3.5	2.9	4.0	3.2	3.0	27	6.0	23.5	15.4	4.6	4.4	2.9	2.2	3.0	3.0	6.0	5.0	3.8
28	3.8	15.5	7.0	3.4	3.2	2.8	3.0	3.1	3.1	3.9	3.2	3.3	28	6.0	27.8	13.6	4.7	4.4	2.9	2.2	4.5	3.3	6.4	4.9	4.4
29	3.7	12.6	7.0	3.5	3.1	2.6	3.0	3.2	3.3	4.1	3.2	3.7	29	5.7	28.8	11.9	6.0	4.2	2.9	2.2	4.5	4.2	6.4	4.8	4.8
30	3.6	6.0	4.1	3.1	3.1	2.7	2.9	3.1	3.1	3.8	3.2	3.7	30	5.6	11.8	7.4	4.0	2.8	2.4	3.9	4.2	6.1	4.8	5.4	
31	3.6	5.5	3.1	2.9	2.9	3.6	8.8	3.2	3.7	3.7	3.2	3.7	31	5.3	11.5	4.0	2.4	3.4	2.4	3.4	2.4	5.8	10.1	4.4	
M'n.	3.6	5.8	5.6	3.8	4.2	3.0	2.7	2.8	3.0	3.4	4.7	3.3	M'n.	11.8	6.1	8.1	3.6	2.5	2.6	3.7	5.0	10.1	4.4		
WABASH RIVER AT LAFAYETTE, IND.													WABASH RIVER AT TERRE HAUTE, IND.												
Wabash—Ohio													Wabash—Ohio												
[Flood stage, 11 feet]													[Flood stage, 14 feet]												
1	1.8	1.9	20.3	5.6	4.6	1.5	1.0	0.7	1.1	1.9	2.8	2.3	1	1.2	23.2	8.7	6.4	1.7	0.2	-0.5	0.6	1.6	2.9	2.2	
2	1.7	1.9	17.7	4.8	10.5	1.5	1.0	0.7	1.0	2.1	2.7	2.2	2	1.8	23.2	7.6	8.4	1.6	0.1	-0.3	0.5	1.6	2.6	2.0	
3	2.2	1.6	14.9	4.4	14.6	1.6	1.0	0.6	1.0	1.8	16.1	2.3	3	1.8	22.3	6.7	12.8	1.6	0.5	-0.5	0.2	1.6	8.3	2.0	
4	1.7	1.8	11.4	4.1	15.4	1.7	1.1	0.6	1.1	1.7	19.7	2.2	4	1.5	21.0	5.7	13.8	1.6	0.5	-0.5	0.9	1.1	14.5	1.8	
5	1.7	2.4	9.3	3.7	13.8	1.5	1.1	0.6	1.0	1.7	19.3	2.2	5	1.2	19.6	5.1	14.3	1.2	0.2	-0.5	0.4	0.9	15.4	1.8	
6	1.7	2.4	8.3	3.7	10.3	1.4	1.0	0.7	1.0	1.6	17.9	2.3	6	1.4	18.1	5.8	14.8	1.2	0.1	-0.5	0.4	1.9	16.6	1.8	
7	2.2	2.4	7.0	3.7	8.0	1.4	1.0	0.8	0.9	1.9	15.1	1.0	7	1.4	16.7	5.1	15.1	1.4	0.1	-0.5	0.4	1.9	17.4	1.8	
8	2.0	3.1	6.3	3.5	6.6	1.4	0.9	0.7	0.8	2.3	11.6	2.0	8	1.5	14.3	4.8	14.9	1.2	0.0	-0.5	0.3	3.4	18.0	1.8	
9	2.5	3.1	5.7	4.2	5.6	3.1	0.9	0.6	0.8	2.3	9.2	1.9	9	1.5	11.0	4.6	13.1	1.2	0.0	-0.5	0.0	2.1	18.2	1.8	
10	2.3	2.2	5.3	3.9	4.7	2.9	0.9	0.7	0.8	5.4	7.6	2.4	10	1.8	9.3	4.4	10.0	1.2	0.0	-0.5	0.0	2.4	17.7	1.4	
11	2.3	2.2	5.1	3.6	4.0	2.3	0.9	0.7	0.8	4.0	6.7	2.2	11	2.2	8.1	4.9	7.8	2.0	0.1	-0.5	0.0	2.4	17.2	1.4	
12	2.9	2.2	4.7	3.5	3.9	2.3	0.8	0.6	1.6	3.4	5.9	2.1	12	2.2	7.3	4.8	6.7	2.1	0.1	-0.5	0.0	2.4	17.2	1.4	
13	2.7	2.2	4.7	3.4	3.7	1.9	0.8	0.6	5.6	3.0	5.2	2.1	13	3.2	6.1	4.0	5.7	2.0	0.1	-0.5	0.0	2.4	17.2	1.4	
14	3.1	2.2	4.3	3.4	3.4	1.9	0.7	0.6	5.1	3.2	4.8	1.6	14	3.6	6.1	4.0	5.1	1.5	0.2	-0.5	0.0	2.4	17.2	1.4	
15	4.0	2.6	4.3	3.6	3.1	1.3	0.7	0.6	3.9	2.6	4.3	2.1	15	4.2	6.1	3.9	4.8	1.4	0.1	-0.5	0.0	2.4	17.2	1.4	
16	3.5	2.6	5.1	3.3	3.0	1.6	0.7	0.7	2.9	2.5	4.0	2.0	16	4.5	6.5	6.1	3.9	4.3	1.0	0.2	-0.5	0.0	2.4	17.2	1.4
17	3.4	2.9	6.2	3.0	2.7	1.3	0.7	0.7	2.2	2.2	3.7	1.8	17	4.1	6.0	6.3	3.8	4.1	0.9	0.3	-0.5	0.0	2.4	17.2	1.4
18	3.0	2.9	5.9	2.7	2.7	1.3	0.7	0.7	1.8	2.2	3.1	1.9	18	3.8	5.8	3.5	3.6	0.9	0.3	-0.5	0.0	2.4	17.2	1.4	
19	2.7	2.6	5.1	2.6	2.7	1.5	0.7	0.7	1.5	2.2	2.9	1.7	19	3.4	5.5	3.1	3.6	0.7	0.3	-0.5	0.0	2.4	17.2	1.4	
20	1.7	2.6	4.6	2.5	2.6	1.2	0.6	1.0	1.4	2.0	3.4	1.7	20	2.4	3.5	6.5	3.0	4.2	0.6	0.3	-0.5	0.0	2.4	17.2	1.4
21	2.1	3.0	4.5	2.6	2.4	1.3	0.0	1.1	1.3	1.8	3.0	1.7	21	4.1	3.5	6.4	2.8	4.1	0.7	0.3	-0.5	0.0	2.4	17.2	1.4
22	1.9>																								

MISSISSIPPI SYSTEM—OHIO BASIN—Continued

1936	January	February	March	April	May	June	July	August	September	October	November	December
WABASH RIVER AT VINCENNES, IND.												
Wabash—Ohio												
[Flood stage, 14 feet]												
1	(a)	(a)	12.8	8.6	4.6	1.9	0.3	-0.3	1.0	0.9	3.0	2.4
2	(a)	(a)	13.8	7.7	5.8	1.8	-0.3	-0.4	0.8	1.2	2.8	2.3
3	(a)	(a)	16.8	6.9	7.2	1.9	-0.3	-0.4	0.7	1.3	4.7	2.3
4	(a)	(a)	19.6	6.1	8.6	1.8	-0.2	-0.4	0.6	1.3	9.6	2.1
5	(a)	(a)	21.1	5.4	9.8	1.7	-0.3	-0.2	0.7	1.1	10.7	2.0
6	(a)	(a)	21.2	5.4	10.2	1.5	-0.3	-0.2	0.7	1.0	11.4	1.9
7	(a)	(a)	20.5	7.1	10.6	1.5	-0.4	-0.3	0.5	1.0	11.6	1.8
8	(a)	(a)	19.5	6.5	10.7	1.5	-0.3	-0.3	0.4	1.0	11.7	1.8
9	(a)	(a)	18.2	5.4	10.9	1.4	-0.3	-0.2	0.2	1.0	11.9	1.7
10	(a)	(a)	16.8	4.9	11.1	1.3	-0.1	-0.3	0.2	1.2	12.1	1.7
11	(a)	(a)	14.8	4.6	10.2	1.3	-0.1	-0.3	0.0	2.0	12.5	1.6
12	(a)	(a)	11.7	4.8	8.4	1.5	-0.0	-0.2	0.0	3.1	13.1	1.6
13	(a)	(a)	8.8	4.5	6.4	1.9	-0.0	-0.2	0.0	4.1	13.6	1.6
14	(a)	(a)	7.5	4.2	5.6	1.8	-0.0	-0.3	0.0	3.8	13.6	1.6
15	(a)	(a)	6.2	4.0	4.9	1.4	-0.1	-0.3	1.1	3.2	12.7	1.6
16	(a)	(a)	5.9	3.8	4.4	1.3	-0.1	-0.3	2.4	2.8	9.5	1.6
17	(a)	(a)	5.9	3.6	4.1	1.3	-0.2	-0.3	2.7	2.4	7.3	1.6
18	(a)	(a)	5.7	3.5	3.8	1.2	-0.2	-0.3	2.4	2.0	5.8	1.5
19	(a)	(a)	5.7	3.4	3.5	1.1	-0.2	-0.3	2.0	1.8	4.8	1.5
20	(a)	(a)	6.0	3.1	3.5	1.0	-0.2	-0.4	1.6	1.3	4.4	1.5
21	(a)	(a)	6.9	2.8	3.6	1.0	-0.2	-0.4	1.1	1.2	4.0	1.4
22	(a)	(a)	7.5	2.7	3.6	0.9	-0.2	-0.4	1.0	1.6	3.6	1.4
23	(a)	(a)	6.8	2.6	3.4	0.8	-0.2	-0.4	0.7	1.7	3.4	1.3
24	(a)	(a)	6.3	2.5	3.0	0.7	-0.3	-0.4	0.7	1.4	3.2	1.3
25	(a)	(a)	3.9	2.7	2.7	0.6	-0.3	-0.4	0.5	1.2	3.0	1.3
26	(a)	(a)	7.0	2.4	2.6	0.6	-0.0	-0.4	0.3	1.4	2.8	1.3
27	(a)	(a)	10.7	2.4	2.5	0.5	-0.0	-0.4	0.2	1.6	2.6	1.3
28	(a)	(a)	11.8	3.0	2.5	0.5	-0.1	-0.2	0.2	1.9	2.5	1.2
29	(a)	(a)	12.4	3.5	2.4	0.4	-0.2	-0.0	0.3	2.5	2.4	1.2
30	(a)	(a)	10.2	3.7	2.3	0.4	-0.3	-0.0	0.6	2.9	2.4	1.6
31	(a)	(a)	9.5	2.1	2.1	0.3	-0.3	-0.7	0.0	3.0	2.2	2.8
M'n.	2.7	-----	11.3	4.4	5.6	1.2	0	-0.3	0.8	1.9	7.2	1.7

1936	January	February	March	April	May	June	July	August	September	October	November	December
WABASH RIVER AT MT. CARMEL, ILL.												
Wabash—Ohio												
[Flood stage, 19 feet]												
1	(a)	(a)	15.8	15.1	6.9	2.5	0.9	0.6	0.9	0.8	3.2	2.9
2	(a)	(a)	16.5	14.5	7.7	2.3	0.8	0.5	1.0	1.2	2.9	2.8
3	(a)	(a)	17.7	13.6	7.7	2.3	0.8	0.5	0.9	1.4	3.9	2.6
4	(a)	(a)	19.0	12.0	8.0	2.3	0.8	0.5	0.8	1.4	8.5	2.6
5	(a)	(a)	20.1	10.1	9.9	2.2	0.8	0.5	0.7	1.3	12.0	2.4
6	(a)	(a)	21.7	9.4	10.2	2.0	0.9	0.4	1.0	1.3	14.0	2.3
7	(a)	(a)	21.8	11.2	10.5	2.1	0.8	0.4	1.0	1.2	14.9	2.3
8	(a)	(a)	20.7	12.1	10.5	2.0	0.8	0.4	1.0	1.2	15.4	2.3
9	(a)	(a)	19.5	12.3	11.2	1.9	0.8	0.3	0.7	1.9	15.7	2.3
10	(a)	(a)	18.1	12.3	10.9	1.8	0.8	0.3	0.7	2.6	16.0	2.3
11	(a)	(a)	16.5	12.4	10.5	1.7	0.7	0.6	0.6	2.6	16.4	2.3
12	(a)	(a)	14.3	12.7	9.2	1.7	0.7	0.4	0.5	3.3	16.6	2.2
13	(a)	(a)	11.0	12.5	7.7	1.7	0.7	0.4	0.5	4.7	16.6	2.2
14	(a)	(a)	8.9	12.0	6.6	2.0	0.7	0.4	0.5	5.1	16.2	2.2
15	(a)	(a)	7.7	11.2	5.9	1.8	0.6	0.4	0.4	4.9	15.0	2.2
16	(a)	(a)	7.0	10.2	5.3	1.7	0.6	0.4	1.0	4.5	12.5	2.2
17	(a)	(a)	6.9	9.0	5.0	1.6	0.6	0.3	2.0	3.9	9.5	2.2
18	(a)	(a)	6.9	8.0	4.5	1.5	0.6	0.3	2.2	3.3	7.7	2.1
19	(a)	(a)	6.7	7.0	4.2	1.4	0.6	0.3	1.8	2.7	6.4	2.1
20	(a)	(a)	6.4	6.4	3.9	1.3	0.6	0.3	1.5	2.3	5.6	2.0
21	(a)	(a)	7.4	5.5	4.3	1.3	0.5	0.2	1.2	2.1	5.0	2.0
22	(a)	(a)	9.0	5.0	4.3	1.2	0.5	0.2	0.9	2.1	4.6	2.0
23	(a)	(a)	9.6	4.7	4.2	1.2	0.5	0.2	0.6	2.1	4.3	1.9
24	(a)	(a)	10.1	4.4	3.9	1.2	0.5	0.2	0.7	2.1	4.0	1.8
25	(a)	(a)	10.5	4.2	3.5	1.1	0.5	0.2	0.7	2.1	3.8	1.8
26	(a)	(a)	11.8	4.0	3.3	1.0	0.5	0.2	0.6	1.9	3.6	1.7
27	(a)	(a)	13.2	4.0	3.1	0.9	0.5	0.2	0.6	2.0	3.5	1.7
28	(a)	(a)	13.8	3.8	3.0	0.9	1.2	0.2	0.6	2.1	3.3	1.7
29	(a)	(a)	15.0	4.4	2.9	0.9	1.2	0.2	0.6	2.4	3.1	2.0
30	(a)	(a)	15.4	5.3	2.8	0.9	1.2	0.2	0.5	2.8	3.0	2.1
31	(a)	(a)	15.4	2.6	2.6	0.7	1.2	0.2	0.3	3.0	2.2	3.6
M'n.	3.8	-----	13.5	9.0	6.3	1.6	0.7	0.3	0.0	2.5	8.9	2.2

1936	January	February	March	April	May	June	July	August	September	October	November	December
WABASH RIVER AT NEW HARMONY, IND.												
Wabash—Ohio												
[Flood stage, 15 feet]												
1	(a)	(a)	11.6	12.3	4.8	2.4	1.1	0.8	0.2	0.7	2.6	2.7
2	(a)	(a)	12.0	12.1	5.6	2.3	1.1	0.8	0.2	0.9	2.6	2.5
3	(a)	(a)	12.7	11.7	5.9	2.3	1.1	0.8	0.2	1.2	3.0	2.4
4	(a)	(a)	13.5	10.9	6.1	2.2	1.1	0.6	0.8	1.3	4.6	2.3
5	(a)	(a)	14.4	9.7	7.1	2.1	1.1	0.5	0.7	1.3	7.7	2.3
6	(a)	(a)	15.4	9.1	7.5	2.1	1.1	0.5	0.7	1.4	9.6	2.3
7	(a)	(a)	16.3	9.1	7.8	2.1	1.1	0.4	0.7	1.4	10.8	2.3
8	(a)	(a)	16.8	10.0	8.0	2.1	1.1	0.3	0.9	1.3	11.3	2.2
9	(a)	(a)	16.7	10.3	8.3	2.1	1.1	0.3	0.9	1.3	11.6	2.2
10	(a)	(a)	16.1	10.2	8.3	2.0	1.1	0.3	0.8	2.0	11.9	2.2
11	(a)	(a)	15.1	10.2	8.1	1.9	1.0	0.4	0.6	2.3	12.1	2.1
12	(a)	(a)	13.6	10.3	7.5	1.8	0.9	0.5	0.4	2.3	12.4	2.1
13	(a)	(a)	11.0	10.4	6.5	1.8	0.8	0.5	0.4	3.2	12.5	2.1
14	(a)	(a)	8.3	10.1	5.5	1.8	0.8	0.4	0.4	3.9	12.6	2.1
15	(a)	(a)	6.8	9.6	5.0	1.8	0.7	0.4	0.4	4.0	12.3	2.1
16	(a)	(a)	6.0	9.0	4.6	1.7	0.7	0.4	0.4	3.8	11.2	2.1
17	(a)	(a)	5.7	8.1	4.2	1.7	0.7	0.4	1.4	3.5	9.0	2.1
18	(a)	(a)	5.5	7.2	4.0	1.7	0.7	0.4	1.9	3.1	6.8	2.0
19	(a)	(a)	5.4	6.3	3.7	1.6	0.7	0.4	1.9	2.7	5.6	2.0
20	(a)	(a)	5.4	5.5	3.5	1.5	0.7	0.3	1.7	2.3	4.9	1.9
21	(a)	(a)	5.8	4.9	3.5	1.4	0.6	0.3	1.4	2.0	4.3	1.9
22	(a)	(a)	6.6	4.5	3.7	1.4	0.6	0.3	1.1	2.0	4.0	1.9
23	(a)	(a)	7.3	4.1	3.7	1.3	0.6	0.3	0.9	2.0	3.8	1.9
24	(a)	(a)	7.6	3.9	3.5	1.3	0.5	0.3	0.9	2.0	3.5	1.8
25	(a)	(a)	8.0	3.8	3.3	1.2	0.5	0.3	0.8	1.9	3.4	1.8
26	(a)	(a)	8.5	3.6	3.1	1.2	0.6	0.2	0.6	1.9	3.2	1.8
27	(a)	(a)	8.5	3.5	2.9	1.1	0.8	0.2	0.6	1.9	2.9	1.7
28	(a)	(a)	10.8	3.4	2.8	1.1	0.9	0.2	0.6	2.0	2.8	1.8
29	(a)	(a)	11.5	3.4	2.7	1.1	1.0	0.2	0.7	2.2	2.7	1.8
30	(a)	(a)	11.9	3.9	2.7	1.1	1.0	0.2	0.7	2.2	2.7	1.8
31	(a)	(a)	12.1	2.6	2.6	0.8	0.2	0.2	0.2	2.4	2.4	1.8
M'n.	3.5	-----	10.6	7.7	5.0	1.7	0.9	0.4	0.8	2.1	7.0	2.1

NEW RIVER AT NEW RIVER, TENN.												
New—South Fork—Cumberland—Ohio												
[Flood stage, 20 feet]												
1	(°)	2.8	4.2	4.3	2.7	1.6	1.1	1.4	1.5	1.3	1.9	1.5
2	(°)	2.8	4.0	5.4	2.7	1.6	1.1	1.4	1.5	1.2	1.8	1.5
3	7.2	2.7	3.8	7.3	2.6	1.5	1.3	1.4	1.5	1.2	1.8	1.4
4	6.3	4.7	3.6	5.4	2.6	1.5	1.4	1.3	1.6	1.2	3.8	1.4
5	8.2	8.1	3.5	5.0	2.5	1.5	1.7	1.3	1.7	1.2	5.8	1.3
6	6.4	5.6	3.5	14.7	2.5	1.4	1.8	1.3	1.7	1.1	3.8	1.3
7	8.2	4.7	3.4	9.7	2.4	1.4	2.0	1.5	1.9	1.2	3.2	1.9
8	6.8	4.5	3.4	5.9	2.4	1.4	1.9	1.4	1.8	1.2	2.8	7.2
9	10.9	4.3	3.4	5.4	2.3	1.4	1.8	1.3	1.7	1.2	2.7	5.2
10	8.7	4.2	3.3	5.8	2.3	1.3	1.7	1.3	1.7	1.3	2.5	4.3
11	5.9	3.8	3.3	6.5	2.3	1.3	1.7	1.4	2.0	2.1	2.4	3.9
12	4.8	3.7	3.2	5.0	2.2	1.3	1.6	1.3	1.8	1.8	2.3	3.4
13	4.2	3.6	3.2	4.7	2.2	1.5	1.6	1.4	1.9	1.8	2.2	3.3
14	3.8	3.7	3.1	4.3	2.2	1.5	1.5	1.6	1.8	1.7	2.1	3.3
15	3.6	4.2	3.0	4.1	2.1	1.5	1.5	2.0	1.7	1.6	2.1	3.3
16	3.5	4.4	3.2	3.9	2.1	1.5	1.5	1.7	1.6	2.3	2.0	3.2
17	3.4	4.5	8.2	3.7	2.1	1.4	1.5	1.6	1.6	2.7	2.0	3.2
18	3.4	4.8	7.2	3.5	2.1	1.4	1.5	1.5	1.5	2.8	2.0	3.2
19	6.6	5.0	7.4	3.4	2.1	1.4	1.5	1.4	1.5	2.4	1.9	3.1
20	---	4.7	7.5	3.3	2.1	1.4	1.5	1.4	1.4	2.2	1.9	3.6
21	5.4	4.4	7.9	3.2	2.1	1.3	1.9	1.3	1.4	2.0	1.9	4.7
22	4.0	4.0	6.0	3.1	2.0	1.3	2.1	1.3	1.4	1.9	1.9	4.4
23	4.4	3.7	5.4	3.0	2.0	1.3	2.0	1.3	1.4	2.0	1.8	3.9
24	4.0	3.5	5.0	2.9	2.0	1.3	1.9	1.2	1.4	2.0	1.8	3.7
25	3.8	3.4	14.1	2.9	2.0	1.3	1.8	1.2	1.4	1.9	1.8	3.5
26	3.0	3.3	7.4	2.8	1.9	1.2	1.7	1.8	1.3	1.8	1.8	3.3
27	(°)	3.7	11.6	2.8	1.9	1.2	1.7	1.6	1.3	1.8	1.8	3.2
28	(°)	5.1	9.3	2.8	1.8	1.2	1.6	1.5	1.3	1.9	1.8	3.0
29	(°)	4.6	6.0	2.7	1.8	1.2	1.6	1.5	1.3	1.9	1.8	7.8
30	(°)	---	5.1	2.7	1.7	1.1	1.5	1.5	1.3	2.0	1.8	6.6
31	(°)	---	4.6	---	1.7	---	1.4	1.4	---	2.0	---	7.7
M'n.	5.6	4.2	5.4	4.6	2.2	1.4	1.6	1.4	1.6	1.8	2.3	4.2

(Omission of page number under "gage reading" indicates the record is short and broken, and is not published. A copy of the available readings may be obtained by application to the Chief of the Weather Bureau.)

Station	River	Miscellaneous data	Gage readings	Station	River	Miscellaneous data	Gage readings
		Page	Page			Page	Page
Lumber City, Ga.	Ocmulgee	4	41	Piqua, Ohio	Miami	6	89
Lynchburg, Va.	James	3	31	Pittsburgh, Pa.	Ohio	7	106
McConnellsville, Ohio	Muskingum	6	81	Pleasant Hill, Ohio	Stillwater	6	88
McGhee, Tenn.	Little Tennessee	7	102	Point Pleasant, W. Va.	Ohio	7	109
McKeesport, Pa.	Monongahela	5	79	Poplar Bluff, Mo.	Black	7	117
Macon, Ga.	Ocmulgee	4	40	Portage, Wis.	Wisconsin	4	55
Madison, Ark.	St. Francis	8	132	Port Jervis, N. Y.	Delaware	3	24
Mailla, Ark.	Big Lake Outlet	8	131	Portland, Me.	Grand	3	---
Mankato, Minn.	Minnesota	4	54	Portland, Oreg.	Willamette	9	157
Marble Falls, Tex.	Colorado	8	---	Portsmouth, Ohio	Ohio	7	110
Marietta, Ohio	Muskingum	0	81	Poston, S. C.	Peedee	3	36
Marked Tree, Ark.	St. Francis	8	132	Prairie du Chien, Wis.	Mississippi	5	61
Markland, Ind.	Ohio	7	112	Prtest River, Idaho	Clark Fork	9	153
Mare River Bridge, S. C.	Peedee	3	36	Prospect, Ohio	Scioto	0	80
Marysville, Calif.	Yuba	9	150	Pueblo, Colo.	Arkansas	8	---
Mayos Bar Lock, Ga.	Coosa	4	47	Quincy, Ill.	Mississippi	5	63
Maysville, Ky.	Ohio	7	110	Radford, Va.	New	6	83
Mechanville, N. Y.	Hudson	3	23	Rainbow, Tex.	Brazos	8	141
Mehama, Oreg.	North Santiam	9	155	Ralston, Okla.	Arkansas	8	124
Melville, La.	Atchafalaya	5	137	Randolph, Va.	Roanoke	3	32
Memphis, Tenn.	Mississippi	8	133	Ravenswood, W. Va.	Ohio	7	108
Mendota, Va.	Holston—North Fork	6	100	Reading, Pa.	Schuylkill	3	24
Mercedes, Tex.	Rio Grande	9	140	Reads, Minn.	Mississippi	5	60
Merrill, Miss.	Pascagoula	4	52	Red Bluff, Calif.	Sacramento	9	151
Miamisburg, Ohio	Miami	6	90	Red Wing, Minn.	Mississippi	5	60
Middletown, Ohio	do.	6	91	Renovo, Pa.	Susquehanna—West Branch	3	20
Midland, Pa.	Ohio	7	---	Resaca, Ga.	Oostanaula	4	46
Midville, Ga.	Ogeechee	4	40	Reserve, La.	Mississippi	8	136
Milledgeville, Ga.	Oconee	4	41	Richmond, Tex.	Brazos	8	142
Millers Ferry, Ala.	Alabama	4	49	Richmond, Va.	James	3	31
Millstead, Ala.	Tallapoosa	4	48	Rimlin, S. C.	Santee	4	38
Mineral Wells, Tex.	Brazos	8	141	Ringo Crossing, Tex.	Sulphur	8	128
Moline, Ill.	Rock	---	---	Riogrande, Tex.	Rio Grande	9	---
Monroeville, N. C.	Haw	3	34	Rio Vista, Calif.	Sacramento	9	152
Monroe, La.	Ouachita	2	127	Riparia, Wash.	Snake	9	154
Montezuma, Ga.	Flint	4	44	River Falls, Ala.	Concuh	4	40
Montgomery, Ala.	Alabama	4	49	River Junction, Fla.	Apalachicola	4	44
Monticello, Miss.	Pearl	4	53	Riverside, Tex.	Trinity	8	140
Moorehead, Minn.	Red of North	3	18	Riverton, Ala.	Tennessee	7	100
Morgan City, La.	Atchafalaya	8	137	Riverton, Va.	Shenandoah	3	29
Morgantown, W. Va.	Monongahela	5	78	Rock Island, Tenn.	Caney Fork	6	98
Morrilton, Ark.	Arkansas	8	125	Rockland, Tex.	Neches	8	138
Morris, Ill.	Illinois	4	57	Rocky Mount, N. C.	Tar	3	33
Mosgrove, Pa.	Allegheny	5	76	Rogersville, Tenn.	Holston	6	100
Mound City, Ill.	Ohio	7	116	Rome, Ga.	Oostanaula	4	47
Mount Carmel, Ill.	Wabash	6	97	Rosman, N. C.	French Broad	6	---
Mud, Tex.	Colorado	8	---	Rumsey, Ky.	Green	6	93
Muscatine, Iowa	Mississippi	5	63	Sacramento, Calif.	Sacramento	9	152
Naples, Tex.	Sulphur	8	128	Sagecyah, Okla.	Verdigris	7	120
Nashville, Tenn.	Cumberland	6	99	Saginaw, Mich.	Saginaw	3	19
Natchez, Miss.	Mississippi	8	135	Saginaw, Oreg.	Willamette—Coast Fork	9	154
Natrona, Pa.	Allegheny	5	76	St. Charles, Mo.	Missouri	5	74
Nebraska City, Nebr.	Missouri	5	72	St. Francis, Ark.	St. Francis	8	131
Neuse, N. C.	Neuse	3	34	St. Francis Lake Lock, Ark.	do.	8	131
New Braunfels, Tex.	Guadalupe	9	---	St. John, Calif.	Stony Creek	9	---
Newburgh, Ind.	Ohio	7	114	St. Joseph, Mo.	Missouri	5	73
Newcomerstown, Ohio	Tuscarawas	5	80	St. Louis, Mo.	Mississippi	5	64
New Harmony, Ind.	Wabash	6	97	St. Paul, Minn.	do.	5	60
New Madrid, Mo.	Mississippi	8	133	St. Thomas, Mo.	Osage	5	70
New Orleans, La.	do.	8	136	Salem, Oreg.	Willamette	9	156
Newport, Ark.	White	7	119	Salida, Colo.	Arkansas	8	---
Newport, Pa.	Juniata	3	27	Saltsburg, Pa.	Kiskiminetas	5	---
New Richmond, Ohio	Ohio	7	111	Sapinero, Colo.	Gunnison	9	---
New River, Tenn.	New	6	97	Savannah, Tenn.	Tennessee	7	106
Newton, Ala.	Choctawhatchee	4	45	Schenley, Pa.	Allegheny	5	76
Nicolaus, Calif.	Feather	9	150	Selma, Ala.	Alabama	4	49
Noblesville, Ind.	White—West Fork	6	---	Seymour, Ind.	White-East Fork	6	94
Norcross, Ga.	Chattahoochee	4	---	Sharon, Pa.	Shenango	5	79
North Platte, Nebr.	North Platte	5	66	Sherburne, N. Y.	Chenango	3	25
Do	South Platte	5	66	Shoals, Ind.	White-East Fork	6	95
North Stratford, N. H.	Connecticut	3	---	Shreveport, La.	Red	8	120
Okay, Okla.	Verdigris	7	---	Shubuta, Miss.	Chickasawhay	4	52
Oklahoma City, Okla.	North Canadian	8	123	Sidney, Ohio	Miami	6	89
Olean, N. Y.	Allegheny	5	75	Simmesport, La.	Atchafalaya	8	127
Omaha, Nebr.	Missouri	5	72	Sioux City, Iowa	Missouri	5	72
Oneonta, N. Y.	Susquehanna	3	27	Smithfield, N. C.	Neuse	3	34
Orange, Tex.	Sabine	8	138	Smithville, Tex.	Colorado	8	142
Oregon City, Oreg.	Willamette	9	150	South Charleston, W. Va.	Kanawha	6	84
Oroville, Calif.	Feather	9	150	South Newbury, Vt.	Connecticut	3	---
Oswego, Kans.	Neosho	7	121	Springbank, Ark.	Red	8	---
Ottumwa, Iowa	Des Moines	4	57	Springfield, Mass.	Connecticut	3	22
Owensboro, Ky.	Ohio	7	113	Springfield, Ohio	Mad	6	89
Ozark, Ark.	Arkansas	8	125	Sullivan, Mo.	Meramec	5	59
Ozark Beach, Mo.	White	7	118	Summersville, W. Va.	Gauley	6	82
Paducah, Ky.	Ohio	7	115	Sunbury, Pa.	Susquehanna	3	29
Paintsville, Ky.	Levisa Fork	6	86	Swan Lake, Miss.	Tallahatchie	8	132
Panna, Colo.	Gunnison—North Fork	9	---	Sycamore, Island, Md.	Potomac	3	30
Parkersburg, W. Va.	Ohio	7	107	Tarboro, N. C.	Tar	3	33
Parkers Landing, Pa.	Allegheny	5	75	Terre Haute, Ind.	Wabash	6	96
Parkin, Ark.	St. Francis	8	132	The Dalles, Oreg.	Columbia	9	153
Pearl River, La.	Pearl	4	53	Three Rivers, Tex.	Nueces	9	144
Pelzer, S. C.	Saluda	3	36	Tiffin, Ohio	Sandusky	3	21
Peoria, Ill.	Illinois	4	58	Tippecanoe City, Ohio	Miami	6	90
Perkins, Okla.	Cimarron	7	120	Topeka, Kans.	Kansas	5	68
Peru, Ill.	Illinois	4	58	Topock, Ariz.	Colorado	9	148
Petersburg, Ind.	White	6	95	Towanda, Pa.	Susquehanna	3	28
Phillippi, W. Va.	Tygart	5	77	Tracy, Iowa	Des Moines	4	57
Phillipsburg, N. J.	Delaware	3	25	Trenton, Mo.	Thompson Fork	5	68
Pierre, S. Dak.	Missouri	5	71	Trenton, N. J.	Delaware	3	25
Pikeville, Ky.	Levisa Fork	6	85	Tribes Hill, N. Y.	Mohawk	3	23
Pine Bluff, Ark.	Arkansas	8	120	Trinidad, Tex.	Trinity	8	140

W. B. No. 1244

UNITED STATES DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

DAILY RIVER STAGES

AT RIVER GAGE STATIONS ON THE
PRINCIPAL RIVERS OF THE
UNITED STATES

REFERENCE
DO NOT CIRCULATE

VOLUME XXXV
1937

Community Affairs File

COMPILED BY MERRILL BERNARD
PRINCIPAL HYDROLOGIST



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INTRODUCTION

This volume, containing the daily river stages for 1937, is the thirty-fifth of a series of Daily River Stages of the Principal Rivers of the United States, the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

- Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.
- II. Stages of the Mississippi River and of its Principal Tributaries, except the Ohio River, 1860 to 1889.
- III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.

DAILY STAGES AT RIVER GAGE STATIONS ON THE PRINCIPAL RIVERS OF THE UNITED STATES

Volume IV. 1890 to 1892.	Volume XII. 1913 and 1914.	Volume XX. 1922.	Volume XXVIII. 1930.
V. 1893 to 1895.	XIII. 1915.	XXI. 1923.	XXIX. 1931.
VI. 1896 to 1899.	XIV. 1916.	XXII. 1924.	XXX. 1932.
VII. 1900 to 1904.	XV. 1917.	XXIII. 1925.	XXXI. 1933.
VIII. 1905 and 1906.	XVI. 1918.	XXIV. 1926.	XXXII. 1934.
IX. 1907 and 1908.	XVII. 1919.	XXV. 1927.	XXXIII. 1935.
X. 1909 and 1910.	XVIII. 1920.	XXVI. 1928.	XXXIV. 1936.
XI. 1911 and 1912.	XIX. 1921.	XXVII. 1929.	

Volumes XVIII to XXIV, XXVI to XXVIII, and XXXIII to XXXV can be bought from the Superintendent of Documents, Washington, D. C.; other volumes are out of print and cannot be supplied.

The river stages are the vertical distances, in feet and tenths, of the water surface above or below the zero of the gage. The zero has, as a rule, been set at or near the lowest known water.

Gage readings are usually made at 8 a. m., seventy-fifth meridian time, east of the Continental Divide, and at 7 a. m., local time, west of the divide.

Extreme stages for a month, not observed at the regular time for reading the gage, are printed as a note at the foot of the table or page. This practice was begun in 1907.

In some cases the zero planes of gages have been changed, either through accident or through necessary removals. The stations at which changes have occurred are given in a table headed "Corrigenda," and the corrections required to reduce previous readings to the zero now in use are also given in the table if they have not been previously published.

The country is divided into districts, and each district has a designated center at which the administrative and forecasting work is carried on. The following table shows the centers, and their districts. Superior figure (1) opposite a center indicates that stage forecasts are made daily throughout the year, and (2) indicates that stage forecasts are made daily during seasons of navigation and in times of flood. At those centers not bearing a reference, forecasts are made only during times of flood.

ADMINISTRATIVE AND FORECASTING CENTERS AND THEIR DISTRICTS

Albany, N. Y.-----	Hudson River and tributaries.
Albuquerque, N. Mex.-----	Pecos River in New Mexico; Rio Grande and tributaries at and above El Paso, Tex.; Canadian River and tributaries in New Mexico.
Asheville, N. C.-----	French Broad River and tributaries above North Carolina-Tennessee State line.
Atlanta, Ga.-----	Apalachicola River and tributaries.
Augusta, Ga.-----	Savannah and Ogeechee Rivers and tributaries.
Binghamton, N. Y.-----	Susquehanna River and tributaries at and above Binghamton, N. Y.
Bismarck, N. Dak.-----	Missouri River and tributaries at and above Bismarck, N. Dak.
Brownsville, Tex.-----	Rio Grande below Laredo, Tex.
Cairo, Ill. ¹ -----	Ohio River below the mouth of the Wabash; Mississippi River from and including Cape Girardeau, Mo., to and including New Madrid, Mo.; Tennessee River and tributaries below Decatur, Ala.
Charleston, S. C.-----	Rivers of northeastern South Carolina.
Chattanooga, Tenn. ¹ -----	Tennessee River and tributaries from below Knoxville, Tenn., to and including Decatur, Ala.
Cincinnati, Ohio ¹ -----	Ohio River and southern tributaries from and including the mouth of the Kanawha, to and including the mouth of the Kentucky; the northern tributaries of the Ohio from Dam No. 31 to a point opposite the mouth of the Kentucky.
Columbia, S. C.-----	Santee River and tributaries.
Columbus, Ohio-----	The Sandusky River; the northern tributaries of the Ohio River from Dam No. 17 to Dam No. 31.
Concordia, Kans.-----	Republican River and tributaries.
Dallas, Tex. ¹ -----	Trinity River and tributaries above Long Lake, Tex.
Davenport, Iowa ² -----	Mississippi River and tributaries from below Dubuque, Iowa, to and including the mouth of the Iowa but not including Keithsburg, Ill.
Del Rio, Tex.-----	Rio Grande from below El Paso to and including Laredo, Tex., and the Pecos River in Texas.
Denver, Colo.-----	Colorado River and tributaries, except the Gila; Arkansas River and tributaries in Colorado.
Des Moines, Iowa-----	Des Moines River and tributaries above Eldon, Iowa.
Dubuque, Iowa ² -----	Mississippi River and tributaries from below La Crosse, Wis., to and including Dubuque, Iowa; the Wisconsin River and tributaries.

Evansville, Ind. ¹ -----	Ohio River and tributaries from below Hawesville, Ky., to the mouth of, but not including, the Wabash
Fort Smith, Ark-----	Arkansas River and tributaries (except the Neosho in Kansas, and the Canadian) from the Kansas Oklahoma line to and including Van Buren, Ark.
Fort Wayne, Ind-----	Maumee River and tributaries.
Fresno, Calif-----	San Joaquin River and tributaries above the mouth of the Tuolumne.
Grand Rapids, Mich-----	Grand River and tributaries below Grand Ledge, Mich.
Harrisburg, Pa. ¹ -----	Susquehanna River and tributaries below Binghamton, N. Y.
Hartford, Conn-----	Connecticut River and tributaries.
Houston, Tex. ¹ -----	Sabine, Neches, and Brazos Rivers; Trinity River at and below Long Lake, Tex.
Indianapolis, Ind-----	Wabash River and tributaries.
Kansas City, Mo-----	Missouri River and tributaries, except the Kansas River at and above Lawrence, Kans., from the mouth of the Platte to and including Lexington, Mo.
Keokuk, Iowa-----	Mississippi River and tributaries (except the Iowa and the Des Moines above Eldon Iowa), from and including Keithsburg, Ill., to and including Louisiana, Mo.
Knoxville, Tenn. ¹ -----	Tennessee River and tributaries at and above Knoxville, Tenn., except French Broad River and tributaries above North Carolina-Tennessee State line.
La Crosse, Wis. ² -----	Mississippi River and tributaries from and including the mouth of the St. Croix River, to and including La Crosse, Wis.
Lansing, Mich-----	Grand River and tributaries at and above Grand Ledge, Mich.; Saginaw River and tributaries.
Little Rock, Ark. ¹ -----	Arkansas River and Tributaries below Van Buren, Ark.; White River and tributaries, except the Blaine in Missouri; Ouachita River and tributaries in Arkansas.
Louisville, Ky. ¹ -----	Ohio River and tributaries from below mouth of the Kentucky to and including Hawesville, Ky.
Lynchburg, Va-----	James River and tributaries above Columbia, Va.
Macon, Ga-----	Altamaha River and tributaries.
Memphis, Tenn. ¹ -----	Mississippi River from below New Madrid, Mo., to the mouth of the White; St. Francis River and tributaries.
Meridian, Miss-----	Pascagoula and Pearl Rivers and tributaries.
Minneapolis, Minn-----	Mississippi River and tributaries above the mouth of the St. Croix River.
Mobile, Ala. ¹ -----	Tombigbee River and tributaries.
Montgomery, Ala. ¹ -----	Alabama River and tributaries.
Moorhead, Minn-----	Red River of the North and tributaries below the Canadian line.
Nashville, Tenn. ¹ -----	Cumberland River and tributaries.
New Orleans, La. ¹ -----	Mississippi River below Natchez, Miss.; Red River below Shreveport, La.; Ouachita and Black River and tributaries in Louisiana; Atchafalaya River.
Oklahoma City, Okla-----	Canadian River and tributaries east of the eastern boundary of New Mexico.
Omaha, Nebr-----	Missouri River and tributaries from below Sioux City, Iowa, to and including the mouth of the Platte
Parkersburg, W. Va. ¹ -----	Ohio River and southern tributaries from below Dam No. 13 to and including Point Pleasant, W. Va.
Pensacola, Fla-----	Escambia and Choctawhatchee Rivers and tributaries.
Philadelphia, Pa-----	Delaware River and tributaries.
Phoenix, Ariz-----	Gila River and tributaries.
Pittsburgh, Pa. ¹ -----	Ohio River and tributaries at and above Dam No. 13.
Portland, Oreg. ¹ -----	Columbia River and tributaries.
Raleigh, N. C-----	The rivers, and their tributaries, that enter the Atlantic Ocean on the North Carolina coast.
Richmond, Va-----	James River and tributaries at and below Columbia, Va.
Sacramento, Calif-----	Rivers in the central valleys of California, except the San Joaquin above the mouth of the Tuolumne
St. Louis, Mo. ¹ -----	Mississippi River and its tributaries from Louisiana to Cape Girardeau, Mo., but not including either terminal (see Kansas City and Topeka centers for Missouri and Osage limits); Black River in Missouri
San Antonio, Tex-----	Colorado, Guadalupe, Nueces, and San Antonio Rivers and tributaries.
Shreveport, La. ¹ -----	Red River and tributaries at and above Shreveport, La.
Sioux City, Iowa-----	Missouri River and tributaries from below Bismarck, N. Dak., to and including Sioux City, Iowa.
Topeka, Kans-----	Kansas River and tributaries at and above Lawrence, Kans., except the Republican River; Neosho and Osage Rivers and tributaries in Kansas.
Vicksburg, Miss. ¹ -----	Mississippi River from the mouth of the White to and including Natchez, Miss.; Yazoo and Big Bayou Rivers and tributaries.
Washington, D. C-----	Potomac River and tributaries.
Wichita, Kans-----	Arkansas River and tributaries in Kansas.

RIVER STATIONS AND MISCELLANEOUS INFORMATION

River stations, arranged by drainage areas, and miscellaneous information pertaining thereto—Continued

Station	River	Length of record	Elevation of gage zero above mean sea level	Distance of gage above mouth of river	Drainage area above gage	Flood stage	Extreme stages from gage readings			
							Highest	Date	Lowest	Date
MISSISSIPPI SYSTEM—continued										
Ohio Basin—Continued										
		Years	Feet	Miles	Sq. miles	Feet	Feet		Feet	
Philippl, W. Va.	Tygart	19	1,276.8	46	923	20	26.7	Oct. 29, 1937	0.1	Sept. 23, 1930
Weston, W. Va.	West Fork	35	995.60	69	133	15	17.6	Oct. 28, 1937	—7	June 23, 1936
Confluence, Pa.	Youghiogheny	65	1,307.40	68	982	12	21.9	Mar. 29, 1924	—7	Sept. 6, 1881
Connellsville, Pa.	do	30	860.13			13	20.5	do	—1	Sept. 23, 1908
West Newton, Pa.	do	48	740.68	19	1,506	20	30.6	Feb. 27, 1912	—3	Sept. 14, 1882
Lock No. 15, Hoult, W. Va.	Monongahela	34	838.9	124.2	2,437	22	29.4	Jan. 2, 1919	—7	Dec. 6, 1908
Lock No. 16, Moreantown, W. Va.	do	55	785.65	101.5	2,683	25	37.0	July 10, 1888	—2	Oct. 6, 1873
Lock No. 7, Greensboro, Pa.	do	50	753.0	84.8	4,447	30	40.4	Mar. 18, 1936	0.2	Sept. 15, 1930
Lock No. 4, Charleroi, Pa.	do	52	716.17	41.5	5,223	30	43.53	July 11, 1888	4.73	Nov. 18, 1887
McKeesport, Pa.	do	25	718.25	14.6	7,101	20	28.8	Mar. 18, 1936	—9	Oct. 10, 1930
Sharon, Pa.	Shenango	26	839.82	28.2	570	9	18.0	Mar. 26, 1913	1.7	Sept. 16, 1932
Beaver Falls, Pa.	Beaver	30		4.0	3,086	15	17.4	Mar. 27, 1913	1.9	Aug. 10, 1913
Walhonding, Ohio	Walhonding	24	811.1	23	1,537	8	16.9	Jan. 15, 1937	—1.8	Dec. 10, 1931
Uhrichsville, Ohio	Stillwater Creek	16	839.37	8	367	11	14.2	Aug. 8, 1935	—6	Aug. 21, 1930
Newcomerstown, Ohio	Tuscarawas	10	780.03	23	2,432	16	21.2	Aug. 9, 1935	3.8	July 29, 1931
Coshocton, Ohio	do	30	733.52	2	4,843	11	30.5	Mar. 26, 1913	1.2	Aug. 15, 1936
Lock No. 10, Zanesville, Ohio	Muskingum	47	665.3	75.8	6,840	25	51.8	Mar. 27, 1913	4.3	Oct. 14, 1899
Lock No. 7, McConnellsville, Ohio	do	25	635.0	48.2	7,411	22	49.1	do	3.4	Oct. 9, 1916
Lock No. 3, Lowell, Ohio	do	9	588.1	13.9	7,978	25	30.3	Aug. 10, 1935	5.8	Aug. 12, 1936
Lock No. 1, Marietta, Ohio	do									
Upper gage	do	24	575.38	2	8,038	28	47.0	Jan. 26, 1937	7.9	Aug. 19, 1930
Lower gage	do	24	567.12	2	8,038	35	55.0	do	7.0	Feb. 3, 1931
Glenville, W. Va.	Little Kanawha	37	697.79	103.0	365	23	33.6	Nov. 16, 1926	—9	Nov. 10, 1906
Creston, W. Va.	do	37	621.71	48.0	1,214	20	32.0	Mar. 14, 1918	—3.0	Nov. 4, 1900
Athens, Ohio	Hocking	22	615.59	31.6	944	17	22.4	Jan. 23, 1937	2.2	Oct. 11, 1931
Camden on Gauley, W. Va.	Gauley	22	2,003.28	71	238	23				
Summersville, W. Va.	do	18		42	604	18	28.75	July 4, 1932	.64	Aug. 10, 1931
Ivanhoe, Va.	New	21	1,941.9	194	1,311	15	20.0	Oct. 2, 1929	0	Aug. 1, 1911
Radford, Va.	do	42		145	2,761	14	32.3	July 16, 1916	—2.0	Nov. 3, 1900
Glenlyn, Va.	do	12	1,492.0	95	3,859	11	14.8	Oct. 3, 1929	—1	Sept. 29, 1921
Hinton, W. Va.	do	51	1,352.04	63	6,288	14	20.2	Sept. 13, 1878	—7	Sept. 27, 1889
Clay, W. Va.	Elk	23	676.60	53.2	1,016	18	32.4	Mar. 14, 1918	—1	July 27, 1931
Kanawha Falls, W. Va.	Kanawha	24	622.88	95.0	8,415	25	31.7	July 17, 1916	—9	Oct. 29, 1931
London Dam, London, W. Va.	do	4	581.0	82.8	8,552	43				
Charleston, W. Va.	do	65	558.65	58.4	10,495	34	41.6	Sept. 14, 1878	—1	Sept. 15, 1889
Lock No. 6, S. Charleston, W. Va.	do	61	547.00	54.0	10,587	42	48.9	Mar. 5, 1899	1.65	Aug. 26, 1910
Logan, W. Va.	Guyandot	16	639.08	81.4	850	20	27.0	Jan. 28, 1918	0	Oct. 10, 1919
Wayne, W. Va.	Twelvepole Creek	13	604.74	28.8	305	25	28.3	June 30, 1928	—2	Oct. 6, 1910
Williamson, W. Va.	Tug Fork	31		57.3	941	38	38.1	Jan. 29, 1918	—8	Oct. 2, 1910
Pikeville, Ky.	Levisa Fork	30	634.03	88.5	1,225	35	40.0	Jan. 28, 1918	—3	Sept. 6, 1910
Paintsville, Ky.	do	10	595.67	38.5		40	34.98	Mar. 13, 1935	1.06	July 23, 1919
Lock No. 3, Louisa, Ky.	Big Sandy	40	516.81	26.0	3,821	45	48.0	Mar. 6, 1899	—7	Nov. 18, 1889
Delaware, Ohio	Olentangy	28	848.58	20.2	415	9	25.5	Mar. 25, 1913	—1	Dec. 15, 1919
La Rue, Ohio	Scioto	22	910.19	196.2	255	11	15.0	Mar. 20, 1927	1.9	July 31, 1919
Prospect, Ohio	do	31	891.72	172.2	554	10	15.0	Mar. 22, 1927	—2	Oct. 2, 1919
Columbus, Ohio	do	40	700.03	131.9	1,613	22	22.0	Mar. 25, 1913	—1.8	Aug. 17, 1919
Circleville, Ohio	do	26	643.03	100.4	3,217	14	28.2	Mar. 26, 1913	—1.8	Sept. 27, 1919
Chillicothe, Ohio	do	30	594.02	70.4	3,847	16	39.8	do	1.0	Sept. 27, 1919
Kings Mills, Ohio	Little Miami	13	587.10	28.1	1,048	17	33.7	do	—5	July 3, 1919
Cynthiana, Ky.	South Fork	21		46	641	20	22.6	Dec. 24, 1921	—6	June 15, 1919
Farmers, Ky.	Licking	21	646.44	172	782	25	31.1	Feb. 9, 1918	1.1	July 11, 1919
Falmouth, Ky.	do	51	511.38	51.2	2,267	28	41.4	Jan. 23, 1937	—1	Sept. 6, 1919
Pleasant Hill, Ohio	Stillwater	22	846.60	29.2	502	13	17.5	Jan. 15, 1937	—7	Aug. 8, 1919
Springfield, Ohio	Mad	24	881.95	23.6	477	11	15.1	do	1.4	Feb. 9, 1919
Brookville, Ind.	Whitewater	20	595.73	27	1,230	20	25.56	do	—2	Aug. 24, 1919
Sidney, Ohio	Miami	24	924.74	134.8	545	12	14.2	Mar. 21, 1927	—0	Sept. 12, 1919
Piqua, Ohio	do	27	844.00	122.1	850	17	29.1	Mar. 25, 1913	—7	Aug. 9, 1910
Tippecanoe City, Ohio	do	15	786.77	104.5	955	27	13.8	Mar. 21, 1927	—5	Aug. 10, 1910
Dayton, Ohio	do	45	721.01	84.5	2,515	21	31.7	Mar. 25, 1913	—1	Sept. 5, 1910
Miamisburg, Ohio	do	15	678.44	68.6	2,719	22	20.6	Jan. 22, 1937	—3	Oct. 17, 1919
Franklin, Ohio	do	15	658.41	61.3	2,731	16	16.7	do	—0	Aug. 3, 1919
Middletown, Ohio	do	15	621.00	52.3	3,158	15	19.0	Feb. 27, 1929	—0	Oct. 8, 1919
Hamilton, Ohio	do	28	560.00	35.3	3,637	17	43.1	Mar. 26, 1913	—1.7	Oct. 21, 1919
Hazard, Ky.	North Fork	13		96.0	442	20	33.8	May 30, 1927	—4	Aug. 1, 1919
Jackson, Ky.	do	32	698.67			28	41.9	do	—3	July 2, 1919
Lock No. 14, Heidelberg, Ky.	Kentucky	21	627.2	249.3	2,630	30	34.4	Mar. 24, 1929	4.8	Nov. 10, 1919
Lock No. 10, Ford, Ky.	do	32	556.8	176.3	3,948	30	35.1	Mar. 29, 1913	9.1	June 27, 1919
Lock No. 7, Highbridge, Ky.	do	37	503.66	117.0	5,024	30	34.8	Dec. 26, 1926	4.7	Nov. 24, 1919
Lock No. 4, Frankfort, Ky.	do	62	462.17	65.0	5,396	31	47.56	Jan. 25, 1937	3.2	Nov. 1, 1919
Bowling Green, Ky.	Barren	14	408.04	29.5	1,875	20	40.7	Jan. 23, 1937	—0	Oct. 18, 1919
Lock No. 6, Brownsville, Ky.	Green	21	403.26	180.6	2,751	28	54.7	Jan. 24, 1937	6.1	Sept. 10, 1919
Lock No. 4, Woodbury, Ky.	do	39	373.80	149.5	5,446	33	59.0	do	5.0	Sept. 17, 1919
Lock No. 2, Rumsey, Ky.	do	39	343.64	62.8	7,081	34	54.42	Jan. 31, 1937	3.7	July 28, 1919
Anderson, Ind.	West Fork	27		242.6	428	10	22.9	Mar. 25, 1913	3.8	June 19, 1919
Noblesville, Ind.	do	24		215.1	844	14	18.8	Jan. 16, 1937	3.0	Aug. 29, 1919
Indianapolis, Ind.	do	27	673.74	185.3	1,590	12	29.5	Mar. 26, 1913	2.0	July 19, 1919
Elliotson, Ind.	do	30	472.94	78.2	4,470	18	31.3	Mar. 27, 1913	5.5	Jan. 11, 1919
Edwardsport, Ind.	do	15		32.6	4,995	12	20.8	Jan. 18, 1937	2.2	Jan. 1, 1919
Seymour, Ind.	East Fork	15	550.7	167.6	2,292	14	19.5	Jan. 16, 1937	—3	Aug. 22, 1919
Williams, Ind.	do	17	472.56	79.2	4,584	10	25.0	Jan. 25, 1937	—2.0	Jan. 1, 1919
Rhoads, Ind.	do	30	442.21	56.0	4,828	25	42.2	Mar. 28, 1913	1.2	Aug. 24, 1919
Petersburg, Ind.	White	3	400.00	47.8	11,100	16	28.1	Jan. 21, 1937	—0	Aug. 26, 1919
Hazleton, Ind.	do	14	383.26	18.9	11,200	16	31.6	Jan. 22, 1937	—7	Aug. 27, 1919
Bluffton, Ind.	Wabash	27		421.8	555	10	20.0	Mar. 26, 1913	—2	July 26, 1919
Wabash, Ind.	do	15			1,740	12				
Logansport, Ind.	do	20		343.2	3,860	17	25.3	Mar. 26, 1913	2.2	Dec. 4, 1919
La Fayette, Ind.	do	24	504.14	301.4	7,324	11	25.5	Feb. 27, 1936	—5	July 26, 1919
Covington, Ind.	do	11	473.97	260.5	8,399	16	28.8	Feb. 29, 1936	1.2	Oct. 6, 1919
Terre Haute, Ind.	do	39	445.78	204.4	12,333	14	31.3	Mar. 27, 1913	—2.0	Feb. 6, 1919
Vincennes, Ind.	do	21	396.43	117.2	13,840	14	25.2	Jan. 17, 1930	—8	June 22, 1919
Mount Carmel, Ill.	do	54	371.46	83.9	28,506	17	31.0	Mar. 30, 1913	—2	Nov. 7, 1919

See footnotes at end of table.

MISSISSIPPI SYSTEM—OHIO BASIN—Continued

1937	January	February	March	April	May	June	July	August	September	October	November	December	1937	January	February	March	April	May	June	July	August	September	October	November	December
WABASH RIVER AT WABASH, IND.													WABASH RIVER AT COVINGTON, IND.												
Wabash—Ohio													Wabash—Ohio												
[Flood stage, 12 feet]													[Elevation of gage zero, 473.97 feet, m. s. l. Flood stage, 16 feet]												
1	13.3	12.6	4.2	4.4	7.7	3.7	3.6	3.8	2.6	2.4	2.4	4.2	1	16.2	14.0	7.8	7.1	18.5	6.2	7.6	5.0	3.3	3.2	3.9	4.3
2	11.0	10.1	4.1	4.4	6.6	3.6	3.4	3.5	2.7	2.3	2.7	4.0	2	17.8	16.0	7.6	6.9	15.9	5.8	6.7	5.0	3.3	3.1	3.6	4.6
3	8.6	7.5	4.1	4.3	5.6	3.4	3.3	3.3	2.6	2.4	2.6	3.8	3	18.6	16.4	7.1	7.8	13.9	5.6	6.1	4.7	3.4	3.1	3.8	4.7
4	7.2	7.0	4.0	5.7	5.2	3.3	3.2	3.1	2.6	2.4	2.6	4.3	4	18.0	14.2	7.0	8.7	12.7	5.4	5.6	4.4	3.6	3.1	3.7	4.5
5	5.7	5.4	4.5	10.1	9.1	3.3	3.1	3.1	3.7	2.4	2.6	3.3	5	15.1	11.2	7.2	11.1	12.9	5.3	5.6	4.2	3.5	3.9	3.6	4.7
6	4.7	4.8	5.2	14.8	7.7	3.6	3.6	3.0	3.2	2.5	2.7	2.5	6	12.0	9.6	7.8	15.0	13.1	5.4	5.3	4.1	5.0	4.2	3.7	4.7
7	4.3	4.4	5.2	13.8	6.3	4.2	3.4	3.0	3.1	2.4	2.6	3.8	7	9.4	8.6	8.2	17.6	14.2	5.3	4.9	4.0	5.5	4.1	3.8	4.8
8	13.9	4.7	5.2	11.2	5.5	4.6	3.3	2.4	3.6	2.3	2.6	3.5	8	15.3	8.1	8.5	19.8	12.2	5.4	4.7	4.0	5.1	3.8	3.8	3.4
9	17.0	11.4	4.9	9.0	4.8	4.0	3.1	6.0	3.2	3.0	2.6	3.3	9	18.2	11.0	8.6	20.3	10.6	5.4	4.6	3.8	4.6	3.4	3.6	3.5
10	14.2	10.7	4.5	7.5	4.6	5.4	3.1	4.5	3.0	2.9	2.6	3.5	10	20.5	14.6	8.3	18.8	9.4	6.5	4.5	5.5	4.5	3.5	3.8	3.9
11	11.9	9.4	4.2	6.0	4.4	5.8	2.9	9.1	4.1	2.7	2.6	3.5	11	22.5	15.9	7.6	15.8	8.8	7.2	4.3	6.7	5.3	3.4	3.7	4.4
12	9.3	8.1	4.1	5.2	4.2	4.9	2.8	10.8	5.1	2.6	2.6	3.3	12	22.7	16.4	7.2	12.6	8.0	7.9	4.3	6.0	8.1	3.3	3.6	4.7
13	7.6	7.4	4.9	4.9	4.2	4.3	2.8	9.4	4.9	2.5	2.6	3.1	13	21.3	13.4	6.8	10.5	7.6	7.4	4.5	9.1	8.9	3.5	3.4	4.7
14	12.5	6.6	4.6	4.7	4.7	4.7	3.8	7.1	4.1	2.5	2.7	3.0	14	19.8	11.0	6.6	9.4	7.4	9.0	5.8	12.1	7.1	3.3	3.6	4.8
15	19.2	6.0	9.9	5.2	4.5	11.0	6.0	6.0	3.6	2.4	2.6	2.9	15	20.0	10.2	6.4	8.8	7.3	11.8	6.7	10.2	6.9	3.2	3.4	4.8
16	19.6	5.6	8.2	5.1	5.6	13.5	5.0	3.2	3.2	2.4	2.5	5.7	16	21.5	9.7	6.2	10.3	7.3	13.1	7.9	8.0	5.4	3.2	3.3	4.8
17	20.2	5.4	6.7	4.7	5.8	11.3	4.2	3.0	2.3	2.3	2.5	12.5	17	24.3	9.2	6.2	13.1	7.5	13.1	12.9	6.8	4.8	3.2	3.6	5.8
18	18.5	5.2	6.4	4.3	6.4	9.9	3.7	2.8	2.6	2.6	2.6	11.2	18	25.3	8.6	5.9	11.8	7.5	12.4	13.4	5.9	4.5	3.8	3.5	8.0
19	13.9	5.1	6.8	5.1	5.3	8.5	3.8	2.7	3.2	2.5	2.5	10.6	19	24.8	8.5	6.0	11.0	7.2	10.8	12.0	5.3	4.0	5.2	3.5	11.4
20	11.3	6.9	5.5	5.6	5.0	7.6	3.4	2.6	4.1	2.5	2.5	10.4	20	23.2	9.5	6.1	10.4	7.4	9.4	10.2	4.8	3.8	6.1	3.4	16.6
21	13.1	12.6	7.8	5.3	5.1	9.1	6.8	3.2	2.6	5.7	2.6	9.8	21	21.4	11.5	7.2	10.2	7.7	8.6	8.7	4.5	3.6	5.7	3.5	17.4
22	14.4	11.2	7.7	11.0	4.6	9.0	5.6	6.6	2.5	5.3	2.5	8.5	22	19.6	14.7	8.8	11.8	7.8	7.7	7.6	4.4	3.5	6.0	2.9	13.6
23	12.6	7.8	6.5	10.4	8.2	6.4	4.6	4.5	2.6	4.8	2.4	7.3	23	19.0	17.2	10.1	14.2	8.2	11.4	6.8	4.1	3.4	6.6	3.1	10.6
24	11.2	6.4	5.8	8.2	7.1	5.2	4.1	4.0	2.5	3.9	2.4	6.5	24	19.2	17.8	9.8	16.0	9.4	10.4	6.1	4.1	3.4	6.0	3.2	9.0
25	10.6	5.2	7.6	9.7	5.7	5.3	3.8	3.6	2.6	3.6	2.5	5.1	25	18.9	14.8	9.0	16.9	10.7	8.6	5.5	4.6	3.6	5.6	3.5	8.0
26	11.0	4.5	8.5	8.0	4.9	4.7	4.6	3.2	2.4	3.3	2.6	4.7	26	17.2	10.8	8.6	16.9	9.1	11.6	5.4	4.4	3.4	4.9	3.4	7.3
27	9.2	4.5	7.3	9.7	7.1	6.4	5.9	3.1	2.6	3.1	2.5	4.2	27	15.1	8.9	10.0	16.9	7.9	9.8	5.8	4.0	3.3	4.7	3.4	6.6
28	8.0	4.2	6.4	12.7	7.1	5.1	5.5	2.9	2.4	3.0	2.9	4.2	28	15.0	8.4	10.2	16.6	7.6	9.0	6.2	3.8	3.5	4.5	3.7	6.1
29	7.0	-----	5.5	10.8	5.2	4.2	4.5	2.8	2.5	2.9	3.7	4.1	29	13.1	-----	9.7	17.0	8.6	8.3	6.7	3.6	3.2	4.3	3.8	6.0
30	5.9	-----	5.0	8.4	4.4	3.9	4.4	2.8	2.4	2.8	3.9	4.1	30	11.4	-----	8.2	19.0	7.8	8.2	6.1	3.6	3.2	4.2	3.7	5.8
31	8.7	-----	4.7	-----	3.9	-----	4.6	2.7	-----	2.8	-----	4.2	31	11.8	-----	7.4	-----	6.8	-----	5.6	3.5	-----	4.0	-----	5.8
M'n.	11.5	7.2	5.5	8.1	5.6	5.0	5.2	4.4	3.0	3.0	2.7	6.2	M'n.	18.3	12.1	7.8	13.4	9.7	8.4	6.7	5.3	4.5	4.2	3.6	7.5
WABASH RIVER AT LAFAYETTE, IND.													WABASH RIVER AT TERRE HAUTE, IND.												
Wabash—Ohio													Wabash—Ohio												
[Elevation of gage zero, 504.14, m. s. l. Flood stage, 11 feet]													[Elevation of gage zero, 445.78 feet m. s. l. Flood stage, 14 feet]												
1	15.2	11.7	4.2	4.0	10.8	3.1	3.8	2.6	1.3	1.1	1.4	2.5	1	13.1	14.3	7.4	5.4	15.0	4.4	5.7	2.8	0.8	0.5	1.2	1.2
2	15.2	13.4	3.9	3.9	9.2	2.8	3.3	2.4	1.4	1.1	1.7	2.4	2	13.8	14.3	6.7	4.9	15.4	4.0	5.2	2.3	0.6	0.4	1.1	1.3
3	13.6	10.7	3.9	3.7	8.4	2.7	2.8	2.2	1.6	1.1	1.6	2.2	3	14.0	14.3	6.1	4.8	15.8	3.5	4.4	2.2	0.6	0.4	0.9	1.3
4	10.3	7.8	3.8	6.3	7.5	2.6	2.5	2.0	1.3	1.1	1.3	2.3	4	14.6	14.2	5.7	6.2	15.4	3.4	3.7	2.0	0.6	0.4	0.9	1.3
5	7.3	6.6	4.3	8.6	8.3	2.4	2.5	1.9	2.3	1.6	1.5	2.5	5	14.7	13.5	5.7	9.6	14.4	3.1	3.3	1.7	1.0	0.7	0.9	1.3
6	6.2	5.6	5.0	14.6	11.4	2.6	2.3	1.9	3.2	1.9	1.7	2.2	6	14.4	11.1	6.0	13.4	14.0	3.3	3.1	1.5	2.0	4.0	0.9	1.7
7	5.0	5.6	5.3	16.8	8.9	2.8	2.2	1.9	2.8	1.4	1.6	2.3	7	12.1	9.1	6.6	14.6	13.4	4.7	2.9	1.3	2.5	2.5	0.9	1.5
8	10.7	4.8	5.4	16.2	7.3	2.7	2.2	1.5	2.3	1.3	1.4	2.5	8	12.5	8.0	6.8	15.2	13.0	4.0	2.5	1.3	2.5	1.6	1.0	1.5
9	16.7	8.8	5.2	13.8	6.1	2.8	2.2	2.3	2.0	1.3	1.7	2.1	9	15.0	11.2	6.9	15.0	11.9	3.9	2.2	1.3	2.5	1.0	1.0	1.4
10	19.0	12.7	4.6	10.6	5.6	3.8	2.0	4.8	1.8	1.3	1.6	2.2	10	16.4	13.0	6.7	16.1	9.8	5.3	2.2	1.2	1.7	0.8	1.0	1.7
11	18.3	12.0	4.3	8.6	4.0	5.0	2.0	3.1	4.5	1.3	1.6	2.1	11	18.1	13.3	6.4	16.3	8.3	6.8	2.2	1.1	1.7	0.8	1.0	1.9
12	15.9	9.9	3.9	8.9	4.5	4.6	1.6	3.3	6.6	1.5	1.3	2.1	12	18.9	13.3	5.8	15.8	7.4	6.9	1.9	4.1	4.0	0.7	1.0	1.0
13	12.3	7.7	3.6	6.0	4.3	3.7	1.7	9.5	4.6	1.3	1.6	2.4	13	19.2	13.2	5.4	14.3	6.8	6.7	1.9	4.7	5.0	0.5	1.0	1.0
14	12.7	7.1	3.6	5.3	4.3	5.5	1.9	8.1	3.3	1.2	1.3	2.2	14	19.3	12.5	5.0	11.3	6.3	6.7	0.7	5.7	5.3	0.5	0.8	1.2
15	17.3	6.0	3.2	5.8	4.1	9.4	4.2	5.5	3.2	1.2	1.3	2.0	15	20.2	10.7	5.0	10.0	5.9	9.3	10.8	7.4	5.3	0.5	0.8	1.2
16	20.5	6.0	3.2	9.9	4.3	8.9	8.9	4.1	2.5	1.2	1.6	2.7	16	21.0	9.6	4.4	9.0	5.4	10.8	9.4	6.5	2.9	0.4	0.8	1.2
17	21.2	5.5	3.1	8.7	4.6	9.0	10.7	3.3	2.0	1.2	1.4	3.3	17	21.1	8.7	4.3	9.3	5.1	11.8	10.5	4.8	2.7	0.4	0.8	3.9
18	20.3	5.1	3.2	7.7	4.2	7.7	9.0	2.7	1.8	1.6	1.4	11.7	18	20.7	8.2	4.3	10.3	5.4	11.7	10.7	3.7	1.4	5.2	0.7	13.2
19	18.5	5.2	3.1	6.9	4.0	6.6	7.5	2.4	1.6	2.8	1.4	12.5	19	20.7	7.8	4.3	9.9	5.6	10.7						

(Omission of page number under "gage reading" indicates the record is short and broken, and is not published. A copy of the available readings may be obtained by application to the Chief of the Weather Bureau.)

Station	River	Miscellaneous data	Gage readings	Station	River	Miscellaneous data	Gage readings
Logansport, La.	Sabine	8	142	Perkins, Okla.	Cimarron	8	12
London, W. Va.	Kanawha	6	87	Peru, Ill.	Illinois	5	0
Long Lake, Tex.	Trinity	9	144	Petersburg, Ind.	White	6	0
London, Tenn.	Tennessee	7	106	Philippi, W. Va.	Tygart	6	7
Louis, Ky.	Big Sandy	6	89	Pierre, S. Dak.	Missouri	5	7
Louisville, Ky.	Ohio	7	116	Pikeville, Ky.	Levisa Fork	6	8
Lowell, Mich.	Grand	3		Pine Bluff, Ark.	Arkansas	8	13
Lowell, Ohio	Muskingum	6	84	Piqua, Ohio	Miami	6	0
Lumber City, Ga.	Ocmulgee	4	43	Pittsburgh, Pa.	Ohio	7	10
Lynchburg, Va.	James	3	31	Pleasant Hill, Ohio	Stillwater	6	1
McConnellsville, Ohio	Muskingum	6	83	Point Pleasant, W. Va.	Ohio	7	1
McGhee, Tenn.	Little Tennessee	7	105	Poplar Bluff, Mo.	Hack	7	1
McKeesport, Pa.	Monongahela	6	82	Portage, Wis.	Wisconsin	4	
Macon, Ga.	Ocmulgee	4	42	Port Jervis, N. Y.	Delaware	3	
Madison, Ark.	St. Francis	8	136	Portland, Mich.	Grand	3	
Manila, Ark.	Big Lake Outlet	8	135	Portland, Oreg.	Willamette	10	1
Mankato, Minn.	Colorado	4	56	Portsmouth, Ohio	Ohio	7	1
Marble Falls, Tex.	Muskingum	9	146	Poston, S. C.	Peedee	4	
Marletta, Ohio	St. Francis	6	84	Prairie du Chien, Wis.	Mississippi	5	
Marked Tree, Ark.	Ohio	8	136	Priest River, Idaho	Clark Fork	9	1
Markland, Ind.	Ohio	7	115-16	Prospect, Ohio	Scioto	6	
Mars Bluff Bridge, S. C.	Peedee	4	37	Pueblo, Colo.	Arkansas	8	
Marysville, Calif.	Yuba	9	154	Quincy, Ill.	Mississippi	5	
Mayos Bar Lock, Ga.	Coosa	4	49	Radford, Va.	New	6	
Mayeville, Ky.	Hudson	7	114	Rainbow, Tex.	Brazos	9	1
Mechanicsville, N. Y.	Hudson	3	24	Ralston, Okla.	Arkansas	8	1
Mechem, Oreg.	North Santiam	9		Randolph, Va.	Roanoke	3	
Melville, La.	Atchafalaya	8	141	Ravenswood, W. Va.	Ohio	7	1
Memphis, Tenn.	Mississippi	8	137	Reading, Pa.	Schuylkill	3	
Mendota, Va.	Holston—North Fork	7	103	Reads, Minn.	Mississippi	5	
Mercedes, Tex.	Rio Grande	9	150	Red Bluff, Calif.	Sacramento	9	1
Merrill, Miss.	Pascagoula	4	54	Red Wing, Minn.	Mississippi	5	
Merrill, Wis.	Wisconsin	4	56	Renovo, Pa.	Susquehanna—West Branch	3	
Miamisburg, Ohio	Miami	6	93	Resaca, Ga.	Oostanaula	4	
Middletown, Ohio	do.	6	93	Reserve, La.	Mississippi	8	1
Midland, Pa.	Ohio	7	110	Richmond, Tex.	Brazos	9	1
Midville, Ga.	Ogeechee	4	42	Richmond, Va.	James	3	
Milledgeville, Ga.	Oconee	4	43	Rimini, S. C.	Santee	4	
Millers Ferry, Ala.	Alabama	4	51	Ringo Crossing, Tex.	Sulphur	8	1
Millstead, Ala.	Trapoosa	4	50	Rio Grande City, Tex.	Rio Grande	9	1
Mineral Wells, Tex.	Brazos	9	145	Rio Vista, Calif.	Sacramento	9	1
Moline, Ill.	Rock	5	57	Riparia, Wash.	Snake	9	1
Moncure, N. C.	Haw	3	35	River Falls, Ala.	Conecuh	4	
Monroe, La.	Ouachita	8	131	River Junction, Fla.	Apalachicola	4	
Montague, City, Mass.	Connecticut	3		Riverside, Tex.	Trinity	9	1
Montezuma, Ga.	Elint	4	45	Riverton, Ala.	Tennessee	7	1
Montgomery, Ala.	Alabama	4	50	Riverton, Va.	Shenandoah	3	
Monticello, Miss.	Pearl	4	55	Rock Island, Tenn.	Caney Fork	7	1
Moorhead, Minn.	Red of North	3	18	Rockland, Tex.	Neches	9	1
Morgan City, La.	Atchafalaya	8	141	Rocky Mount, N. C.	Tar	3	
Morgantown, W. Va.	Monongahela	6	81	Rogersville, Tenn.	Holston	7	1
Morrilton, Ark.	Arkansas	8	129	Roma, Ga.	Oostanaula	4	
Morris, Ill.	Illinois	5	60	Rosman, N. C.	French Broad	7	
Mosgrove, Pa.	Allegheny	5	78	Rumsey, Ky.	Green	6	
Mound City, Ill.	Ohio	6		Sacramento, Calif.	Sacramento	9	
Mount Carmel, Ill.	Wabash	7	100	Sageeyah, Okla.	Verdigris	8	
Mud, Tex.	Colorado	9		Saginaw, Mich.	Saginaw	3	
Muscatine, Iowa	Mississippi	5	65	Saginaw, Oreg.	Willamette—Coast Fork	9	1
Naples, Tex.	Sulphur	8	132	St. Charles, Mo.	Missouri	5	
Nashville, Tenn.	Cumberland	7	102	St. Francis, Ark.	St. Francis	8	1
Natchez, Miss.	Mississippi	8	139	St. Francis Lake Lock, Ark.	do.	8	
Natrona, Pa.	Allegheny	5	79	St. John, Calif.	Stony Creek	9	
Nebraska City, Nebr.	Missouri	5	74	St. Joseph, Mo.	Missouri	5	
Neuse, N. C.	Neuse	3	34	St. Louis, Mo.	Mississippi	5	
New Braunfels, Tex.	Guadalupe	9		St. Paul, Minn.	do.	5	
Newburgh, Ind.	Ohio	7		St. Thomas, Mo.	Osage	6	
Newcomertown, Ohio	Tuscarawas	6	83	Salem, Oreg.	Willamette	10	
New Harmony, Ind.	Wabash	7	100	Salida, Colo.	Arkansas	8	
New Madrid, Mo.	Mississippi	8	137	Saltsburg, Pa.	Kiskiminetas	5	
New Orleans, La.	do.	8	140	Sapinero, Colo.	Gunnison	9	
Newport, Ark.	White	8	123	Savannah, Tenn.	Tennessee	7	
Newport, Pa.	Junata	3	28	Schenley, Pa.	Allegheny	5	
New Richmond, Ohio	Ohio	7	114	Selma, Ala.	Alabama	4	
New River, Tenn.	New	7	100	Seymour, Ind.	White—East Fork	6	
Newton, Ala.	Choctawhatchee	4	47	Sharon, Pa.	Shenango	6	
Nicolaus, Calif.	Feather	9	154	Sherburne, N. Y.	Chenango	3	
Noblesville, Ind.	White—West Fork	6		Shoals, Ind.	White—East Fork	6	
North Platte, Nebr.	North Platte	5	68	Shreveport, La.	Red	8	
do.	South Platte	5	68	Shubuta, Miss.	Chickasawhay	4	
North Stratford, N. H.	Connecticut	3	22	Sidney, Ohio	Miami	6	
Oklahoma City, Okla.	North Canadian	8	127	Simmesport, La.	Atchafalaya	8	
Olean, N. Y.	Allegheny	5	77	Sioux City, Iowa	Missouri	5	
Omaha, Nebr.	Missouri	5	74	Smithfield, N. C.	Neuse	3	
Oneonta, N. Y.	Susquehanna	3	28	Smithville, Tex.	Colorado	9	
Orange, Tex.	Sabine	9	142	South Charleston, W. Va.	Kanawha	6	
Oregon, City, Oreg.	Willamette	10	160	South Newbury, Vt.	Connecticut	3	
Oroville, Calif.	Feather	9	154	Springbank, Ark.	Red	8	
Oswego, Kans.	Neosho	8	125	Springfield, Mass.	Connecticut	3	
Ottumwa, Iowa	Des Moines	5	59	Springfield, Ohio	Mad	6	
Owensboro, Ky.	Ohio	7	117-18	Sullivan, Mo.	Meramec	5	
Ozark, Ark.	Arkansas	8	129	Summersville, W. Va.	Gauley	6	
Ozark Beach, Mo.	White	8	122	Sunbury, Pa.	Susquehanna	3	
Paducah, Ky.	Ohio	7	119	Swan Lake, Miss.	Tallahatchie	6	
Paintsville, Ky.	Levisa Fork	6	88	Sycamore Island, Md.	Potomac	3	
Paonia, Colo.	Gunnison—North Fork	9		Tarboro, N. C.	Tar	3	
Parkersburg, W. Va.	Ohio	7	110	Terre Haute, Ind.	Wabash	6	
Parkers Landing, Pa.	Allegheny	5	78	The Dalles, Oreg.	Columbia	10	
Parklin, Ark.	St. Francis	8	136	Three Rivers, Tex.	Nueces	9	
Pearl River, La.	Pearl	4	55	Tiffin, Ohio	Sandusky	3	
Pelzer, S. C.	Saluda	4	38	Tippecanoe City, Ohio	Miami	6	
Peoria, Ill.	Illinois	5	60	Topeka, Kans.	Kansas	5	

UNITED STATES DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

DAILY RIVER STAGES

AT RIVER GAGE STATIONS ON THE
PRINCIPAL RIVERS OF THE
UNITED STATES

REFERENCE
DO NOT CIRCULATE

VOLUME XXXVI

1938

Community Affairs File

COMPILED BY MERRILL BERNARD
PRINCIPAL HYDROLOGIST



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INTRODUCTION

This volume, containing the daily river stages for 1938, is the thirty-sixth of a series of Daily River Stages on the Principal Rivers of the United States, the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

- Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.
- II. Stages of the Mississippi River and of its Principal Tributaries, except the Ohio River, 1860 to 1889.
- III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.

DAILY STAGES AT RIVER GAGE STATIONS ON THE PRINCIPAL RIVERS OF THE UNITED STATES

Volume IV. 1890 to 1892.	Volume XII. 1913 and 1914.	Volume XX. 1922.	Volume XXVIII. 1930.
V. 1893 to 1895	XIII. 1915.	XXI. 1923.	XXIX. 1931.
VI. 1896 to 1899.	XIV. 1916.	XXII. 1924.	XXX. 1932.
VII. 1900 to 1904.	XV. 1917.	XXIII. 1925.	XXXI. 1933.
VIII. 1905 and 1906.	XVI. 1918.	XXIV. 1926.	XXXII. 1934.
IX. 1907 and 1908.	XVII. 1919.	XXV. 1927.	XXXIII. 1935.
X. 1909 and 1910.	XVIII. 1920.	XXVI. 1928.	XXXIV. 1936.
XI. 1911 and 1912.	XIX. 1921.	XXVII. 1929.	XXXV. 1937.

Volumes XVIII to XXIV, XXVI to XXVIII, and XXXIII to XXXVI can be bought from the Superintendent of Documents, Washington, D. C.; other volumes are out of print and cannot be supplied.

The river stages are the vertical distances, in feet and tenths, of the water surface above or below the zero of the gage. The zero has, as a rule, been set at or near the lowest known water.

Gage readings are usually made at 8 a. m., seventy-fifth meridian time, east of the Continental Divide, and at 7 a. m., local time, west of the divide.

Extreme stages for a month, not observed at the regular time for reading the gage, are printed as a note at the foot of the table or page. This practice was begun in 1907.

In some cases the zero planes of gages have been changed, either through accident or through necessary removals. The stations at which changes have occurred are given in a table headed "Corrigenda," and the corrections required to reduce previous readings to the zero now in use are also given in the table if they have not been previously published.

The country is divided into districts, and each district has a designated center at which the administrative and forecasting work is carried on. The following table shows the centers and their districts. Superior figure (1) opposite a center indicates that stage forecasts are made daily throughout the year, and (2) indicates that stage forecasts are made daily during seasons of navigation and in times of flood. At those centers not bearing a reference, forecasts are made only during times of flood.

ADMINISTRATIVE AND FORECASTING CENTERS AND THEIR DISTRICTS

Albany, N. Y.-----	Hudson River and tributaries.
Albuquerque, N. Mex.-----	Pecos River in New Mexico; Rio Grande and tributaries at and above Elephant Butte Reservoir Dam, N. Mex.; Canadian River and tributaries in New Mexico; and the San Juan River and tributaries.
Asheville, N. C.-----	French Broad River and tributaries above North Carolina-Tennessee State line.
Atlanta, Ga.-----	Apalachicola River and tributaries.
Augusta, Ga.-----	Savannah and Ogeechee Rivers and tributaries.
Binghamton, N. Y.-----	Susquehanna River and tributaries above Towanda, Pa.
Bismarck, N. Dak.-----	Missouri River and tributaries at and above Bismarck, N. Dak.
Brownsville, Tex.-----	Rio Grande below Laredo, Tex.
Cairo, Ill. ¹ -----	Ohio River below Dam No. 50 at Fords Ferry, Ky.; Mississippi River from and including Cape Girardeau, Mo., to and including New Madrid, Mo.; Tennessee River and tributaries below Decatur, Ala.
Charleston, S. C.-----	Rivers of northeastern South Carolina.
Chattanooga, Tenn. ¹ -----	Tennessee River and tributaries from below Knoxville, Tenn., to and including Decatur, Ala.
Cincinnati, Ohio ¹ -----	Ohio River and southern tributaries from and including the mouth of the Kanawha, to and including the mouth of the Kentucky; the northern tributaries of the Ohio from Dam No. 31 to a point opposite the mouth of the Kentucky.
Columbia, S. C.-----	Santee River and tributaries.
Columbus, Ohio.-----	The Sandusky River; the northern tributaries of the Ohio River from Dam No. 17 to Dam No. 31.
Concord, N. H.-----	Merrimack River and tributaries.
Concordia, Kans.-----	Republican River and tributaries.
Dallas, Tex. ¹ -----	Trinity River and tributaries above Long Lake, Tex.
Davenport, Iowa ² -----	Mississippi River and tributaries from below Dubuque, Iowa, to and including the mouth of the Iowa, but not including Keithsburg, Ill.
Del Rio, Tex.-----	The Rio Grande and tributaries from but not including the Pecos River to and including Laredo, Tex.
Denver, Colo.-----	Colorado River and tributaries to but not including the San Juan; Arkansas River and tributaries in Colorado.
Des Moines, Iowa.-----	Des Moines River and tributaries above Eldon, Iowa.
Dubuque, Iowa ² -----	Mississippi River and tributaries from below La Crosse, Wis., to and including Dubuque, Iowa; the Wisconsin River and tributaries.
El Paso, Tex.-----	The Rio Grande and tributaries from below Elephant Butte Reservoir Dam, N. Mex., to and including the mouth of the Pecos River; and the Pecos River in Texas.

Eureka, Calif.....	Eel River.
Evansville, Ind. ¹	Ohio River and tributaries except the Wabash River from below Hawesville, Ky., to and including Dam No. 50 at Fords Ferry, Ky.
Fort Smith, Ark.....	Arkansas River and tributaries (except the Neosho in Kansas, and the Canadian) from the Kansas-Oklahoma line to and including Van Buren, Ark.
Fort Wayne, Ind.....	Maumee River and tributaries.
Fresno, Calif.....	San Joaquin River and tributaries above the mouth of the Tuolumne.
Grand Rapids, Mich.....	Grand River and tributaries below Grand Ledge, Mich.
Harrisburg, Pa. ¹	Susquehanna River and tributaries at and below Towanda, Pa.
Hartford, Conn.....	Connecticut River and tributaries.
Houston, Tex. ¹	Sabine, Neches, and Brazos Rivers; Trinity River at and below Long Lake, Tex.
Indianapolis, Ind.....	Wabash River and tributaries.
Kansas city, Mo.....	Missouri River and tributaries, except the Kansas River at and above Lawrence, Kans., from the mouth of the Platte to and including Lexington, Mo.
Keokuk, Iowa.....	Mississippi River and tributaries (except the Iowa and the Des Moines above Eldon, Iowa), from and including Keithsburg, Ill., to and including Louisiana, Mo.
Knoxville, Tenn. ¹	Tennessee River and tributaries at and above Knoxville, Tenn., except French Broad River and tributaries above North Carolina-Tennessee State line.
La Crosse, Wis. ²	Mississippi River and tributaries from and including the mouth of the St. Croix River, to and including La Crosse, Wis.
Lansing, Mich.....	Grand River and tributaries at and above Grand Ledge, Mich.; Saginaw River and tributaries.
Little Rock, Ark. ¹	Arkansas River and tributaries below Van Buren, Ark.; White River and tributaries, except the Black in Missouri; Ouachita River and tributaries in Arkansas.
Louisville, Ky. ¹	Ohio River and tributaries from below mouth of the Kentucky to and including Hawesville, Ky.
Lynchburg, Va.....	James River and tributaries above Columbia, Va.
Macon, Ga.....	Altamaha River and tributaries.
Memphis, Tenn. ¹	Mississippi River from below New Madrid, Mo., to the mouth of the White; St. Francis River and tributaries.
Meridian, Miss.....	Pascagoula and Pearl Rivers and tributaries.
Minneapolis, Minn.....	Mississippi River and tributaries above the mouth of the St. Croix River.
Mobile, Ala. ¹	Tombigee River and tributaries.
Montgomery, Ala.....	Alabama River and tributaries.
Moorhead, Minn.....	Red River of the North and tributaries below the Canadian line.
Nashville, Tenn. ¹	Cumberland River and tributaries.
New Orleans, La. ¹	Mississippi River below Natchez, Miss.; Red River below Shreveport, La.; Ouachita and Black Rivers and tributaries in Louisiana; Atchafalaya River.
Oklahoma City, Okla.....	Canadian River and tributaries east of the eastern boundary of New Mexico.
Omaha, Nebr.....	Missouri River and tributaries from below Sioux City, Iowa, to and including the mouth of the Platte.
Parkersburg, W. Va. ¹	Ohio River and southern tributaries from below Dam No. 13 to and including Point Pleasant, W. Va.
Pensacola, Fla.....	Escambia and Choctawhatchee Rivers and tributaries.
Philadelphia, Pa.....	Delaware River and tributaries except the Schuylkill River and its tributaries above Perkiomen Creek.
Phoenix, Ariz.....	Gila River and tributaries at and above Gila Bend, Ariz., and the Colorado River and tributaries from but not including the San Juan to and including Pierce's Ferry, Ariz.
Pittsburgh, Pa. ¹	Ohio River and tributaries at and above Dam No. 13.
Portland, Oreg. ¹	Columbia River and tributaries.
Raleigh, N. C.....	The rivers and their tributaries that enter the Atlantic Ocean on the North Carolina coast.
Reading, Pa.....	Schuylkill River and its tributaries above Perkiomen Creek.
Richmond, Va.....	James River and tributaries at and below Columbia, Va.
Sacramento, Calif.....	Rivers in the central valleys of California, except the San Joaquin above the mouth of the Tuolumne.
St. Louis, Mo. ¹	Mississippi River and its tributaries from Louisiana to Cape Girardeau, Mo., but not including either terminal (see Kansas City and Topeka centers for Missouri and Osage limits); Black River in Missouri.
San Antonio, Tex.....	Colorado, Guadalupe, Nueces, and San Antonio Rivers and tributaries.
Shreveport, La. ¹	Red River and tributaries at and above Shreveport, La.
Sioux City, Iowa.....	Missouri River and tributaries from below Bismarck, N. Dak., to and including Sioux City, Iowa.
Topeka, Kans.....	Kansas River and tributaries at and above Lawrence, Kans., except the Republican River; Neosho and Osage Rivers and tributaries in Kansas.
Vicksburg, Miss. ¹	Mississippi River from the mouth of the White to and including Natchez, Miss.; Yazoo and Big Black Rivers and tributaries.
Washington, D. C.....	Potomac River and tributaries.
Wichita, Kans.....	Arkansas River and tributaries in Kansas.
Yuma, Ariz.....	Colorado River and tributaries from below Pierce's Ferry, Ariz., to the Arizona-Mexico border, and the Gila River below Gila Bend, Ariz.

RIVER STATIONS AND MISCELLANEOUS INFORMATION

River stations, arranged by drainage areas, and miscellaneous information pertaining thereto—Continued

Station	River	Length of record	Elevation of gage zero above mean sea level	Distance of gage above mouth of river	Drainage area above gage	Flood stage	Extreme stages from gage readings			
							Highest	Date	Lowest	Date
MISSISSIPPI SYSTEM—continued										
Ohio Basin—Continued										
		Years	Feet	Miles	Sq. miles	Feet	Feet		Feet	
Philippi, W. Va.	Tygart	20	1,276.8	46	923	20	20.7	Oct. 29, 1937	0.1	Sept. 29, 1930
Weston, W. Va.	West Fork	36	995.60	69	133	15	17.6	Oct. 28, 1937	— .7	June 28, 1936
Confluence, Pa.	Youghiogheny	66	1,307.40	68	982	12	21.9	Mar. 29, 1924	— .7	Sept. 6, 1881
Connellsville, Pa.	do	31	860.13			13	20.5	do	— .1	Sept. 23, 1908
West Newton, Pa.	do	49	740.68	19	1,506	20	30.6	Feb. 27, 1912	— .3	Sept. 14, 1892
Lock No. 15, Houtt, W. Va.	Monongahela	35	838.9	124.2	2,437	22	29.4	Jan. 2, 1919	— .7	Dec. 6, 1908
Lock No. 10, Morgantown, W. Va.	do	56	785.65	101.5	2,083	25	37.0	July 10, 1888	— .2	Oct. 5, 1873
Lock No. 7, Greensboro, Pa.	do	51	753.0	84.8	4,447	30	40.4	Mar. 18, 1936	6.2	Sept. 15, 1930
Lock No. 4, Charleroi, Pa.	do	53	716.17	41.5	5,223	30	43.53	July 11, 1888	4.73	Nov. 18, 1887
McKeesport, Pa.	do	26	718.25	14.6	7,161	20	28.8	Mar. 18, 1936	— .9	Aug. 10, 1930
Sharon, Pa.	Shenango	27	839.82	28.2	570	9	18.6	Mar. 26, 1913	1.7	Sept. 16, 1932
Beaver Falls, Pa.	Beaver	31		4.0	3,086	15	17.4	Mar. 27, 1913	1.9	Aug. 10, 1913
Walhonding, Ohio	Walhonding	25		23	1,537	8	16.9	Jan. 15, 1937	— 1.3	Dec. 10, 1934
Uhrichsville, Ohio	Stillwater Creek	17	839.37	8	367	11	14.2	Aug. 8, 1935	— .6	Aug. 21, 1930
Newscomertown, Ohio	Tuscarawas	11	780.03	23	2,432	16	21.2	Aug. 9, 1935	3.8	July 29, 1934
Coshocton, Ohio	do	31	733.52	2	4,843	11	30.5	Mar. 26, 1913	1.2	Aug. 15, 1936
Lock No. 10, Zanesville, Ohio	Muskingum	48	665.3	75.8	6,840	25	51.8	Mar. 27, 1913	4.3	Oct. 14, 1895
Lock No. 7, McConnellsville, Ohio	do	26	635.0	48.2	7,411	22	49.1	do	3.4	Oct. 9, 1916
Lock No. 3, Lowell, Ohio	do	10	588.1	13.9	7,978	25	30.3	Aug. 10, 1935	5.8	Aug. 12, 1930
Lock No. 1, Marietta, Ohio:	do									
Upper gage	do	25	575.38	2	8,038	28	47.0	Jan. 26, 1937	7.9	Aug. 19, 1930
Glenville, W. Va.	Little Kanawha	38	697.79	103.0	365	23	33.6	Nov. 16, 1926	— .9	Nov. 10, 1908
Creston, W. Va.	do	38	621.71	48.0	1,214	20	32.0	Mar. 14, 1918	— 3.0	Nov. 4, 1906
Athens, Ohio	Hocking	23	615.59	31.6	944	17	22.4	Jan. 23, 1937	2.2	Oct. 11, 1930
Camden on Gauley, W. Va.	Gauley	23	2,003.28	71	238	23				
Summersville, W. Va.	do	19		42	664	18	28.75	July 4, 1932	— .64	Aug. 10, 1930
Ivanhoe, Va.	New	22	1,941.9	194	1,311	15	20.0	Oct. 2, 1929	— .0	Aug. 1, 1917
Radford, Va.	do	43		145	2,761	14	32.3	July 16, 1916	— 2.0	Nov. 3, 1904
Glenlyn, Va.	do	13	1,492.0	95	3,859	11	14.8	Oct. 3, 1929	— .1	Sept. 29, 1926
Hinton, W. Va.	do	52	1,352.04	63	6,288	14	20.2	Sept. 13, 1878	— .7	Sept. 27, 1894
Clay, W. Va.	Elk	24	676.60	53.2	1,016	18	32.4	Mar. 14, 1918	— .1	July 27, 1936
Kanawha Falls, W. Va.	Kanawha	25	622.88	95.0	8,415	25	31.7	July 17, 1916	— .9	Oct. 29, 1921
London Dam, London, W. Va.	do	5	581.0	82.8	8,552	43				
Charleston, W. Va.	do	66	558.65	58.4	10,495	34	41.6	Sept. 14, 1878	— .1	Sept. 15, 1881
Lock No. 6, S. Charleston, W. Va.	do	52	547.90	54.0	10,587	42	48.9	Mar. 5, 1899	1.65	Aug. 26, 1893
Logan, W. Va.	Guyandot	17	639.08	81.4	859	20	27.0	Jan. 28, 1918	— .0	Oct. 10, 1923
Wayne, W. Va.	Twelvepole Creek	14	604.74	28.8	305	25	28.3	June 30, 1928	— .2	Oct. 5, 1935
Williamson, W. Va.	Tug Fork	32		57.3	941	38	38.1	Jan. 29, 1918	— .8	Oct. 2, 1908
Pikeville, Ky.	Levisa Fork	31	634.03	88.5	1,225	35	49.0	Jan. 28, 1918	— .3	Sept. 6, 1935
Paintsville, Ky.	do	11	566.67	38.5		40	34.98	Mar. 13, 1935	1.06	July 23, 1930
Lock No. 3, Louisa, Ky.	Big Sandy	50	516.81	26.6	3,821	45	48.0	Mar. 6, 1899	— .7	Nov. 18, 1884
Delaware, Ohio	Olentangy	29	848.58	20.2	415	9	25.5	Mar. 25, 1913	— .1	Dec. 15, 1934
La Rue, Ohio	Scioto	23	910.19	196.2	255	11	15.0	Mar. 20, 1927	1.9	July 31, 1916
Prospect, Ohio	do	32	891.72	172.2	554	10	15.0	Mar. 22, 1927	— .2	Oct. 2, 1910
Columbus, Ohio	do	41	700.03	131.9	1,613	22	22.9	Mar. 25, 1913	— .8	July 27, 1923
Circleville, Ohio	do	27	643.03	100.4	3,217	14	28.2	Mar. 26, 1913	1.8	Aug. 17, 1925
Chillicothe, Ohio	do	31	594.02	70.4	3,847	16	39.8	do	1.0	Sept. 27, 1916
Kings Mills, Ohio	Little Miami	14	587.10	28.1	1,048	17	33.7	do	— .5	July 3, 1914
Cynthiana, Ky.	South Fork	22		40	641	20	22.6	Dec. 24, 1921	— .5	June 15, 1936
Farmers, Ky.	Licking	22	646.44	172	782	25	31.1	July 9, 1918	1.1	July 11, 1936
Falmouth, Ky.	do	52	511.38	61.2	2,267	28	41.4	Jan. 23, 1937	— 1.1	Sept. 6, 1930
Pleasant Hill, Ohio	Stillwater	23	846.60	29.2	502	13	17.5	Jan. 15, 1937	— .7	Aug. 8, 1936
Springfield, Ohio	Mad	25	881.95	23.6	477	11	15.1	do	1.4	Feb. 9, 1936
Brookville, Ind.	Whitewater	21	595.73	27	1,230	20	25.60	do	— .2	Aug. 24, 1936
Sidney, Ohio	Miami	25	924.74	134.8	545	12	14.2	Mar. 21, 1927	— .0	Sept. 12, 1936
Piqua, Ohio	do	28	844.00	122.1	850	17	29.1	Mar. 25, 1913	— .7	Aug. 9, 1936
Tipp City, Ohio	do	16	786.77	104.6	955	27	13.8	Mar. 21, 1927	— .5	Aug. 10, 1936
Dayton, Ohio	do	46	721.01	84.5	2,515	21	31.7	Mar. 25, 1913	— .1	Sept. 5, 1925
Miamisburg, Ohio	do	16	678.44	68.6	2,719	22	20.6	Jan. 22, 1937	— .3	Oct. 17, 1929
Franklin, Ohio	do	16	658.41	61.3	2,731	16	16.7	do	— .0	Aug. 3, 1934
Middletown, Ohio	do	16	621.00	52.3	3,158	15	19.0	Feb. 27, 1929	— .0	Oct. 8, 1924
Hamilton, Ohio	do	29	560.00	35.3	3,637	17	43.1	Mar. 26, 1913	— 1.7	Oct. 21, 1932
Hazard, Ky.	North Fork	14		96.0	442	20	33.8	May 30, 1927	— .4	Aug. 1, 1925
Jackson, Ky.	do	33	698.67			28	41.9	do	— .3	July 2, 1936
Lock No. 14, Heidelberg, Ky.	Kentucky	22	627.2	249.3	2,639	30	34.4	Mar. 24, 1929	4.8	Nov. 10, 1930
Lock No. 10, Ford, Ky.	do	33	556.8	176.3	3,948	30	35.1	Mar. 29, 1913	9.1	June 27, 1936
Lock No. 7, Highbridge, Ky.	do	38	503.66	117.0	5,024	30	34.8	Dec. 26, 1926	4.7	Nov. 24, 1912
Lock No. 4, Frankfort, Ky.	do	53	462.17	65.0	5,396	31	47.50	Jan. 25, 1937	3.2	Nov. 1, 1908
Bowling Green, Ky.	Barren	15	408.04	29.5	1,875	20	40.7	Jan. 23, 1937	— .0	Oct. 18, 1923
Munfordville, Ky.	Green	14	452.20	219.0	1,707	28	44.5	Dec. 18, 1915	1.7	Oct. 4, 1928
Lock No. 6, Brownsville, Ky.	do	22	403.26	180.6	2,751	28	54.7	Jan. 24, 1937	6.1	Sept. 10, 1919
Lock No. 4, Woodbury, Ky.	do	40	373.90	149.5	5,446	33	59.0	do	— .0	Sept. 17, 1902
Lock No. 2, Rumsey, Ky.	do	40	343.04	62.8	7,681	34	54.42	Jan. 31, 1937	3.7	July 28, 1902
Anderson, Ind.	West Fork	28		242.6	428	10	22.9	Mar. 25, 1913	3.8	June 19, 1918
Noblesville, Ind.	do	25		215.1	844	14	18.8	Jan. 16, 1937	3.0	Aug. 29, 1914
Indianapolis, Ind.	do	28	672.92	185.3	1,590	12	29.5	Mar. 26, 1913	2.0	July 19, 1936
Elliston, Ind.	do	31	472.94	78.2	4,470	18	31.3	Mar. 27, 1913	5.5	Jan. 11, 1909
Edwardsport, Ind.	do	16		32.6	4,995	12	20.8	Jan. 18, 1937	2.2	Jan. 1, 1931
Seymour, Ind.	East Fork	16	550.7	167.6	2,292	14	19.5	Jan. 16, 1937	— .3	Aug. 22, 1936
Williams, Ind.	do	18	472.56	79.2	4,584	10	25.0	Jan. 25, 1937	— 2.0	Jan. 1, 1931
Shoals, Ind.	do	31	442.21	56.0	4,828	25	42.2	Mar. 28, 1913	1.2	Aug. 24, 1936
Petersburg, Ind.	White	4	400.00	47.8	11,100	16	28.1	Jan. 21, 1937	— .0	Aug. 26, 1936
Hazleton, Ind.	do	15	383.26	18.9	11,200	16	31.6	Jan. 22, 1937	— .7	Aug. 27, 1936
Bluffton, Ind.	Wabash	28		421.8	555	10	20.0	Mar. 26, 1913	— .2	July 26, 1934
Wabash, Ind.	do	16			1,740	12				
Logansport, Ind.	do	21		343.2	3,860	17	25.3	Mar. 26, 1913	2.2	Dec. 4, 1914
La Fayette, Ind.	do	25	504.14	301.4	7,324	11	25.5	Feb. 27, 1936	— .5	July 26, 1936
Covington, Ind.	do	12	473.97	260.5	8,399	16	28.8	Feb. 29, 1936	1.2	Oct. 5, 1928
Terre Haute, Ind.	do	40	445.78	204.4	12,333	14	31.3	Mar. 27, 1913	— 2.0	Feb. 6, 1892
Vincennes, Ind.	do	22	396.43	117.2	13,840	14	25.2	Jan. 17, 1930	— .8	June 22, 1934
Mount Carmel, Ill.	do	55	371.46	83.9	28,506	17	31.0	Mar. 30, 1913	— .2	Nov. 7, 1895
New Harmony, Ind.	do	5	353.20	44.0		15	24.4	Jan. 30, 1937	0.1	Oct. 15, 1935
New River, Tenn.	New	31	1,002.67	8.0	383	18				
Rock Island, Tenn.	Caney Fork	28	647.41	90.3	1,656	30	40.6	Mar. 23, 1929	— .0	Nov. 25, 1936
Williamsburg, Ky.	Cumberland	31	892.40	592.7	1,673	19	30.4	Mar. 25, 1929	— 2.5	Sept. 16, 1919
Burnside, Ky.	do	54	585.60	518.4	4,949	60	69.4	Mar. 24, 1929	— 1.6	Nov. 8, 1895

See footnotes at end of table.

1938	January	February	March	April	May	June	July	August	September	October	November	December
WABASH RIVER AT COVINGTON, IND.												
Wabash—Ohio												
[Elevation of gage zero, 473.97 feet, m. s. l. Flood stage, 16 feet]												
1	5.9	6.0	10.3	17.7	6.3	10.0	21.1	6.3	3.4	3.4	3.1	3.3
2	6.6	6.4	9.8	20.0	6.2	9.2	21.1	6.8	3.3	3.4	3.0	3.3
3	8.2	6.2	9.2	22.6	6.1	8.9	22.2	6.5	3.6	3.3	3.0	3.6
4	7.8	5.9	9.0	23.4	5.9	8.2	22.0	6.5	3.3	3.2	3.0	4.2
5	7.0	6.0	9.2	22.4	5.8	7.7	20.9	6.5	3.2	3.3	3.1	4.5
6	6.2	6.2	10.1	19.7	5.6	7.1	18.8	6.0	3.1	3.3	3.2	4.7
7	5.7	6.4	11.3	17.4	5.4	6.5	16.0	5.8	3.1	3.2	3.1	5.0
8	5.2	7.1	13.1	17.5	5.3	6.0	12.8	5.6	3.1	3.1	3.3	5.0
9	5.4	7.5	12.7	19.7	5.3	5.7	10.5	7.2	3.1	3.1	3.3	4.8
10	5.1	7.4	11.1	22.4	5.2	6.2	9.4	6.0	3.9	3.1	3.3	4.6
11	5.1	6.8	9.9	25.3	5.1	5.1	8.6	5.6	3.6	3.2	3.4	4.6
12	5.8	7.4	9.1	25.5	5.1	5.7	7.7	5.6	3.6	3.3	3.3	4.4
13	6.0	10.3	8.7	24.2	5.0	6.2	7.3	5.1	4.0	3.2	3.3	4.1
14	5.4	12.7	8.7	22.3	4.9	7.7	6.6	5.5	5.1	3.1	3.5	4.1
15	5.9	13.9	9.0	19.8	4.9	9.3	6.3	4.8	6.4	3.2	3.2	4.0
16	6.0	14.0	12.6	16.8	5.2	7.9	8.3	4.5	6.6	3.1	3.0	3.6
17	5.6	11.6	17.3	13.5	5.2	6.8	8.5	4.2	7.0	3.0	3.2	3.7
18	4.7	10.5	19.6	11.8	5.4	6.0	8.1	4.2	6.7	3.0	3.4	3.6
19	4.5	12.7	21.7	10.3	5.5	5.4	7.5	4.2	6.0	3.3	3.3	3.7
20	4.2	16.6	22.0	9.5	5.8	5.0	6.6	4.2	5.4	3.1	3.3	3.5
21	4.2	18.1	20.7	9.1	6.4	4.7	6.1	7.3	4.8	3.5	3.5	3.5
22	4.2	19.1	18.2	9.0	6.6	4.5	5.8	5.6	4.5	3.2	3.2	3.5
23	4.3	19.0	14.7	8.6	6.5	4.5	5.5	4.2	4.3	3.1	4.0	3.6
24	4.8	17.3	12.7	7.9	7.2	4.2	5.5	4.0	4.1	3.2	4.0	3.5
25	6.4	15.6	13.1	7.6	8.9	4.5	5.3	4.0	3.9	3.5	4.0	3.6
26	7.8	14.7	16.0	7.4	8.8	5.2	5.2	4.0	4.0	3.1	3.6	3.6
27	7.4	13.0	16.0	7.3	7.5	13.0	5.2	3.8	3.8	3.1	3.3	3.4
28	6.3	11.3	14.2	6.9	7.7	10.8	5.8	3.6	3.5	3.0	3.2	3.1
29	6.0	-----	12.0	6.7	8.0	19.0	5.1	3.5	3.3	3.0	3.3	3.6
30	5.7	-----	10.5	6.6	8.5	21.2	6.0	3.4	3.3	3.0	3.3	3.7
31	5.8	-----	15.0	-----	9.6	6.0	-----	3.7	-----	3.2	-----	3.8
M'n	5.8	11.1	13.1	15.3	6.3	7.9	10.1	5.2	4.2	3.2	3.3	4.0

1938	January	February	March	April	May	June	July	August	September	October	November	December
WABASH RIVER AT VINCENNES, IND.												
Wabash—Ohio												
[Elevation of gage zero, 396.43 feet, m. s. l. Flood stage, 14 feet]												
1	3.6	4.1	11.7	15.7	4.8	8.3	10.1	3.5	1.7			

† Frozen, but open at gage.
 * Stage of upper surface of smooth ice.
 † Crest 22.5 at 5 p. m.

² Crest 25.7 at 5:30 p. m.
³ Crest 21.5 at 3 p. m.
⁴ 10.2 at 6 p. m.

³ Crest 21.7 at noon.
⁶ Crest 20.9 at 2 p. m.
⁷ 9.3 at 5 p. m.

⁸ 1.3 at 3 p. m.
⁹ 3.3 at 5 p. m.

(Omission of page number under "gage readings" indicates the record is short and broken, and is not published. A copy of the available readings may be obtained by application to the Chief of the Weather Bureau.)

Station	River	Miscellaneous data	Gage readings	Station	River	Miscellaneous data	Gage readings
		Page	Page			Page	Page
London, Tenn	Tennessee	7	107	Perkins, Okla	Cimarron	8	126
Louisa, Ky	Big Sandy	6	90	Peru, Ill.	Illinois	5	62
Louisville, Ky	Ohio	7	118	Petersburg, Ind	White	6	90
Lowell, Mass.	Merrimack	3	23	Phillippi, W. Va	Tygart	6	81
Lowell, Mich	Grand	3		Pickwick Dam, Tenn	Tennessee	7	110
Lowell, Ohio	Muskingum	6	85	Pierre, S. Dak	Missouri	5	75
Lumber City, Ga	Ocmulgee	4	44	Pikeville, Ky	Levisa Fork	6	89
Lynchburg, Va	James	3	33	Pine Bluff, Ark	Arkansas	8	132
McConnellsville, Ohio	Muskingum	6	85	Piqua, Ohio	Miami	6	93
McGhee, Tenn	Little Tennessee	7	106	Pittsburgh, Pa	Ohio	7	111
McKeesport, Pa	Monongahela	6	84	Pleasant Hill, Ohio	Stillwater	6	92
Macon, Ga	Ocmulgee	4	43	Plymouth, N. H.	Pemigewasset	3	22
Madison, Ark	St. Francis	8	138	Point Pleasant, W. Va	Ohio	7	113
Manchester, N. H.	Merrimack	3	22	Poplar Bluff, Mo	Black	7	123
Manila, Ark	Big Lake Outlet	8	137	Portage, Wis	Wisconsin	4	59
Mankato, Minn	Minnesota	4	58	Port Jervis, N. Y	Delaware	3	26
Marble Falls, Tex	Colorado	9	148	Portland, Mich	Grand	3	
Marietta, Ohio	Ohio	6, 7	112	Portland, Oreg	Willamette	9	162
Marked Tree, Ark	St. Francis	8	138	Portsmouth, Ohio	Ohio	7	115
Markland, Ind	Ohio	7	117	Poston, S. C	Pee Dee	4	39
Mars Bluff Bridge, S. C	Pee Dee	4	38	Prairie du Chien, Wis.	Mississippi	5	66
Marysville, Calif	Yuba	9	150	Priest River, Idaho	Clark Fork	9	159
Mayas Bar Lock, Ga	Coosa	4	50	Prospect, Ohio	Scioto	6	90
Maysville, Ky	Ohio	7	115	Pueblo, Colo	Arkansas	8	
Mechanicsville, N. Y	Hudson	3	25	Quincy, Ill	Mississippi	5	68
Mehama, Oreg	North Santiam	9		Radford, Va	New	6	87
Melville, La	Atchafalaya	8	143	Rainbow, Tex	Brazos	9	147
Memphis, Tenn	Mississippi	8	139	Ralston, Okla	Arkansas	8	130
Mendota, Va	Holston—North Fork	7	104	Randolph, Va	Roanoke	3	34
Mercedes, Tex	Rio Grande	9	152	Ravenswood, W. Va	Ohio	7	113
Merrill, Miss	Pascagoula	4	55	Reading, Pa	Schuylkill	3	26
Merrill, Wis	Wisconsin	4	58	Reads, Minn	Mississippi	5	65
Miamisburg, Ohio	Miami	6	94	Red Bluff, Calif	Sacramento	9	157
Middletown, Ohio	do	6	95	Red Wing, Minn	Mississippi	5	65
Midland, Pa	Ohio	7	111	Renovo, Pa	Susquehanna—West Branch	3	29
Midville, Ga	Ogeechee	4	43	Resaca, Ga	Oostanaula	4	49
Miles City, Mont	Yellowstone	5	70	Reserve, La	Mississippi	8	142
Milledgeville, Ga	Oconee	4	44	Richmond, Tex	Brazos	9	148
Millers Ferry, Ala	Alabama	4	52	Richmond, Va	James	3	33
Milstead, Ala	Tallapoosa	4	51	Rimlin, S. C	Santee	4	41
Mineral Wells, Tex	Brazos	9	147	Ringo Crossing, Tex	Sulphur	8	134
Moline, Ill	Rock	5	59	Rio Grande City, Tex	Rio Grande	9	152
Moncure, N. C	Haw	4	37	Rio Vista, Calif	Sacramento	9	158
Monroe, La	Ouachita	8	133	Riparia, Wash	Snake	9	160
Montague City, Mass	Connecticut	3		River Falls, Ala	Conecuh	4	49
Montezuma, Ga	Flint	4	46	River Junction, Fla	Apalachicola	4	47
Montgomery, Ala	Alabama	4	52	Riverside, Tex	Trinity	9	146
Monticello, Miss	Pearl	4	56	Riverton, Va	Shenandoah	3	32
Moorhead, Minn	Red of North	3	18	Rock Island, Tenn	Caney Fork	6	102
Morgan City, La	Atchafalaya	8	143	Rockland, Tex	Neches	8	144
Morgantown, W. Va	Monongahela	6	83	Rocky Mount, N. C	Tar	3	35
Morrilton, Ark	Arkansas	8	131	Rogersville, Tenn	Holston	7	105
Morris, Ill	Illinois	5	62	Rome, Ga	Oostanaula	4	49
Mosgrove, Pa	Allegheny	5	80	Rosman, N. C	French Broad	7	
Mound City, Ill	Ohio	7		Rumsey, Ky	Green	6	98
Mount Carmel, Ill	Wabash	6	101	Sacramento, Calif	Sacramento	9	158
Mud, Tex	Colorado	9		Sagecyah, Okla	Verdigris	8	126
Munfordville, Ky	Green	6	97	Saginaw, Mich	Saginaw	3	19
Muscatine, Iowa	Mississippi	5	67	Saginaw, Oreg	Willamette—Coast Fork	9	160
Naples, Tex	Sulphur	8	134	St. Charles, Mo	Missouri	5	78
Nashville, Tenn	Cumberland	7	103	St. Francis, Ark	St. Francis	8	137
Natchez, Miss	Mississippi	8	141	St. Francis Lake Lock, Ark	do	8	137
Natrona, Pa	Allegheny	5	81	St. John, Calif	Stony Creek	9	
Nebraska City, Nebr	Missouri	5	77	St. Joseph, Mo	Missouri	5	77
Neuse, N. C	Neuse	3	36	St. Louis, Mo	Mississippi	5	69
New Braunfels, Tex	Guadalupe	9		St. Paul, Minn	do	5	64
Newburgh, Ind	Ohio	7		St. Thomas, Mo	Osage	5	74
Newcomerstown, Ohio	Tuscarawas	6	84	Salem, Oreg	Willamette	9	162
New Harmony, Ind	Wabash	6	102	Salida, Colo	Arkansas	8	
New Madrid, Mo	Mississippi	8	139	Saltsburg, Pa	Kiskiminetas	5	
New Orleans, La	do	8	142	Sapinero, Colo	Gunnison	9	
Newport, Ark	White	7	125	Savannah, Tenn	Tennessee	7	110
Newport, Pa	Junata	3	29	Schenley, Pa	Allegheny	5	80
New Richmond, Ohio	Ohio	7	116	Selma, Ala	Alabama	4	52
New River, Tenn	New	6	102	Seward, Pa	Conemaugh	5	79
Newton, Ala	Choctawhatchee	4	48	Seymour, Ind	White—East Fork	6	99
Nicolaus, Calif	Feather	0	156	Sharon, Pa	Shenango	6	
Noblesville, Ind	White—West Fork	6		Sherburne, N. Y	Chenango	3	27
North Platte, Nebr	North Platte	5	70	Shoals, Ind	White—East Fork	6	99
Do	South Platte	5	70	Shreveport, La	Red	8	136
North Stratford, N. H.	Connecticut	3	23	Shubuta, Miss	Chickasawhay	4	55
Oklahoma City, Okla	North Canadian	8	129	Sidney, Ohio	Miami	6	93
Olean, N. Y	Allegheny	5	79	Simmesport, La	Atchafalaya	8	143
Omaha, Nebr	Missouri	5	77	Sioux City, Iowa	Missouri	5	76
Oneonta, N. Y	Susquehanna	3	30	Smithfield, N. C	Neuse	3	36
Orange, Tex	Sabine	8	144	Smithville, Tex	Colorado	9	149
Oregon City, Oreg	Willamette	9	162	South Charleston, W. Va	Kanawha	6	
Oroville, Calif	Feather	9	156	South Newbury, Vt	Connecticut	3	
Osceola, Mo	Osage	5	74	Springbank, Ark	Red	8	
Oswego, Kans	Neosho	8	127	Springfield, Mass	Connecticut	3	24
Ottumwa, Iowa	Des Moines	5	61	Springfield, Ohio	Mad	6	93
Owensboro, Ky	Ohio	7	119	Sullivan, Mo	Meramec	5	63
Ozark, Ark	Arkansas	8	131	Summersville, W. Va	Gauley	6	86
Ozark Beach, Mo	White	7	124	Sunbury, Pa	Susquehanna	3	31
Paducah, Ky	Ohio	7	121	Swan Lake, Miss	Tallahatchie	8	138
Paintsville, Ky	Levisa Fork	6	90	Tarboro, N. C	Tar	3	35
Paonia, Colo	Gunnison—North Fork	9		Terre Haute, Ind	Wabash	6	101
Parkersburg, W. Va	Ohio	7	113	The Dalles, Oreg	Columbia	10	164
Parkers Landing, Pa	Allegheny	5	80	Three Rivers, Tex	Neucom	9	150
Parklin, Ark	St. Francis	8	138	Tiffin, Ohio	Sandusky	3	21
Pearl River, La	Pearl	4	57	Tipp City, Ohio	Miami	6	94
Pelzer, S. C	Saluda	4	39	Topeka, Kans	Kansas	5	73
Penacook, N. H	Contoocook	3	22	Towanda, Pa	Susquehanna	3	30
Peoria, Ill	Illinois	5	62	Tracy, Iowa	Des Moines	5	61

W. B. No. 1356

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU

DAILY RIVER STAGES

AT RIVER GAGE STATIONS ON THE
PRINCIPAL RIVERS OF THE
UNITED STATES

REFERENCE
DO NOT CIRCULATE

VOLUME XXXVII

1939

Community Affairs File

COMPILED BY MERRILL BERNARD
PRINCIPAL HYDROLOGIST



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INTRODUCTION

This volume, containing the daily river stages for 1939, is the thirty-seventh of a series of Daily River Stages on the Principal Rivers of the United States, the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.

II. Stages of the Mississippi River and of its Principal Tributaries, except the Ohio River, 1860 to 1889.

III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.

DAILY STAGES AT RIVER GAGE STATIONS ON THE PRINCIPAL RIVERS OF THE UNITED STATES

Volume IV. 1890 to 1892.	Volume XII. 1913 and 1914.	Volume XX. 1922.	Volume XXVIII. 1930.
V. 1893 to 1895.	XIII. 1915.	XXI. 1923.	XXIX. 1931.
VI. 1896 to 1899.	XIV. 1916.	XXII. 1924.	XXX. 1932.
VII. 1900 to 1904.	XV. 1917.	XXIII. 1925.	XXXI. 1933.
VIII. 1905 and 1906.	XVI. 1918.	XXIV. 1926.	XXXII. 1934.
IX. 1907 and 1908.	XVII. 1919.	XXV. 1927.	XXXIII. 1935.
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Volumes XVIII to XXIV, XXVI to XXVIII, and XXXIII to XXXVII can be bought from the Superintendent of Documents, Washington, D. C.; other volumes are out of print and cannot be supplied.

The river stages are the vertical distances, in feet and tenths, of the water surface above or below the zero of the gage. The zero has, as a rule, been set at or near the lowest known water.

Gage readings are usually made at 8 a. m., seventy-fifth meridian time, east of the Continental Divide, and at 7 a. m., local time, west of the divide.

Extreme stages for a month, not observed at the regular time for reading the gage, are printed as a note at the foot of the table or page. This practice was begun in 1907.

In some cases the zero planes of gages have been changed, either through accident or through necessary removals. The stations at which changes have occurred are given in a table headed "Corrigenda," and the corrections required to reduce previous readings to the zero now in use are also given in the table if they have not been previously published.

The country is divided into districts, and each district has a designated center at which the administrative and forecasting work is carried on. The following table shows the centers, and their districts. Superior figure ⁽¹⁾ opposite a center indicates that stage forecasts are made daily throughout the year, and ⁽²⁾ indicates that stage forecasts are made daily during seasons of navigation and in times of flood. At those centers not bearing a reference, forecasts are made only during times of flood.

ADMINISTRATIVE AND FORECASTING CENTERS AND THEIR DISTRICTS

Albany, N. Y.-----	Hudson River and tributaries.
Albuquerque, N. Mex.-----	Pecos River in New Mexico; Rio Grande and tributaries at and above Elephant Butte Reservoir Dam, N. Mex.; Canadian River and tributaries in New Mexico; and the San Juan River and tributaries.
Asheville, N. C.-----	French Broad River and tributaries above North Carolina-Tennessee State line.
Atlanta, Ga.-----	Apalachicola River and tributaries.
Augusta, Ga.-----	Savannah and Ogeechee Rivers and tributaries.
Binghamton, N. Y.-----	Susquehanna River and tributaries above Towanda, Pa.
Bismarck, N. Dak.-----	Missouri River and tributaries at and above Bismarck, N. Dak.
Brownsville, Tex.-----	Rio Grande below Laredo, Tex.
Cairo, Ill. ¹ -----	Ohio River below Dam No. 50 at Fords Ferry, Ky.; Mississippi River from and including Cape Girardeau, Mo., to and including New Madrid, Mo.; Tennessee River and tributaries below Decatur, Ala.
Charleston, S. C.-----	Rivers of northeastern South Carolina.
Chattanooga, Tenn. ¹ -----	Tennessee River and tributaries from below Knoxville, Tenn., to and including Decatur, Ala.
Cincinnati, Ohio ¹ -----	Ohio River and southern tributaries from and including the mouth of the Kanawha River, to and including the mouth of the Kentucky River; the northern tributaries of the Ohio River from Dam No. 31 to a point opposite the mouth of the Kentucky River.
Columbia, S. C.-----	Santee River and tributaries.
Columbus, Ohio-----	The Sandusky River; the northern tributaries of the Ohio River from Dam No. 17 to Dam No. 31.
Concord, N. H.-----	Merrimack River and tributaries.
Concordia, Kans.-----	Republican River and tributaries.
Dallas, Tex.-----	Trinity River and tributaries above Long Lake, Tex.
Davenport, Iowa ² -----	Mississippi River and tributaries from and including Dam No. 12, and its upstream gage to, but not including Dam No. 18.
Del Rio, Tex.-----	The Rio Grande and tributaries from, but not including the Pecos River, to and including Laredo, Tex.
Denver, Colo.-----	Colorado River and tributaries to but not including the San Juan River; Arkansas River and tributaries in Colorado.

Des Moines, Iowa.....	Des Moines River and tributaries above Eldon, Iowa.
Dubuque, Iowa ²	Mississippi River and tributaries from and including Dam No. 8, and its upstream gage to, including Dam No. 12.
El Paso, Tex.....	The Rio Grande and tributaries from below Elephant Butte Reservoir Dam, N. Mex., including the mouth of the Pecos River; and the Pecos River in Texas.
Eureka, Calif.....	Eel River.
Evansville, Ind. ¹	Ohio River and tributaries, except the Wabash River, from below Hawesville, Ky., to and including Dam No. 50 at Fords Ferry, Ky.
Fort Smith, Ark.....	Arkansas River and tributaries (except the Neosho River in Kansas, and the Canadian River the Kansas-Oklahoma line to and including Van Buren, Ark.
Fort Wayne, Ind.....	Maumee River and tributaries.
Fresno, Calif.....	San Joaquin River and tributaries above the mouth of the Tuolumne River.
Grand Rapids, Mich.....	Grand River and tributaries below Grand Ledge, Mich.
Harrisburg, Pa. ¹	Susquehanna River and tributaries at and below Towanda, Pa.
Hartford, Conn.....	Connecticut River and tributaries.
Houston, Texas. ¹	Sabine, Neches, and Brazos Rivers; Trinity River at and below Long Lake, Tex.
Indianapolis, Ind.....	Wabash River and tributaries.
Kansas City, Mo.....	Missouri River and tributaries, except the Kansas River at and above Lawrence, Kans., from the mouth of the Platte River to and including Lexington, Mo.
Keokuk, Iowa.....	Mississippi River and tributaries, except the Des Moines River above Eldon, Iowa, from and including Dam No. 18, and its upstream gage to, but not including Dam No. 24.
Knoxville, Tenn. ¹	Tennessee River and tributaries at and above Knoxville, Tenn., except French Broad River and tributaries above North Carolina-Tennessee State line.
La Crosse, Wis. ²	Mississippi River and tributaries from and including Dam No. 2, and its upstream gage to, but not including Dam No. 8.
Lansing, Mich.....	Grand River and tributaries at and above Grand Ledge, Mich.; Saginaw River and tributaries below Van Buren, Ark.; White River and tributaries, except the River in Missouri; Ouachita River and tributaries in Arkansas.
Little Rock, Ark. ¹	Ohio River and tributaries from below the mouth of the Kentucky River to and including Hawesville, Ky.
Louisville, Ky. ¹	James River and tributaries above Columbia, Va.
Lynchburg, Va.....	Altamaha River and tributaries.
Macon, Ga.....	Mississippi River from below New Madrid, Mo., to the mouth of the White River; St. Francis River and tributaries.
Memphis, Tenn. ¹	Pascagoula and Pearl Rivers and tributaries.
Meridian, Miss.....	Mississippi River and tributaries above, but not including Dam No. 2.
Minneapolis, Minn.....	Tombigbee River and tributaries.
Mobile, Ala. ¹	Alabama River and tributaries.
Montgomery, Ala.....	Red River of the North and tributaries below the Canadian line.
Moorhead, Minn.....	Cumberland River and tributaries.
Nashville, Tenn. ¹	Mississippi River below Natchez, Miss.; Red River below Shreveport, La.; Ouachita and Atchafalaya Rivers and tributaries in Louisiana; Atchafalaya River.
New Orleans, La. ¹	Canadian River and tributaries east of the eastern boundary of New Mexico.
Oklahoma City, Okla.....	Missouri River and tributaries from below Sioux City, Iowa, to and including the mouth of the River.
Omaha, Nebr.....	Ohio River and southern tributaries from below Dam No. 13 to and including Point Pleasant, W. Va.
Parkersburg, W. Va. ¹	Escambia and Choctawhatchee Rivers and tributaries.
Pensacola, Fla.....	Schuylkill River and tributaries below and including the mouth of Perkiomen Creek.
Philadelphia, Pa.....	Gila River and tributaries at and above Gila Bend, Ariz., and the Colorado River and tributaries from, but not including, the San Juan River to and including Pierce's Ferry, Ariz.
Phoenix, Ariz.....	Ohio River and tributaries at and above Dam No. 13.
Pittsburgh, Pa. ¹	Columbia River and tributaries.
Portland, Oreg. ¹	The rivers, and their tributaries, that enter the Atlantic Ocean on the North Carolina coast.
Raleigh, N. C.....	Schuylkill River and tributaries above Perkiomen Creek.
Reading, Pa.....	James River and tributaries at and below Columbia, Va.
Richmond, Va.....	Rivers in the central valleys of California, except the San Joaquin River above the mouth of the Tuolumne River.
Sacramento, Calif.....	Mississippi River and tributaries from and including Dam No. 24, and its upstream gage to, including Cape Girardeau, Mo. (See Topeka and Kansas City districts for limits of Missouri and Osage Rivers.) Black River in Missouri.
St. Louis, Mo. ¹	Colorado, Guadalupe, Nueces, and the San Antonio Rivers and tributaries.
San Antonio, Tex.....	Red River and tributaries at and above Shreveport, La.
Shreveport, La. ¹	Missouri River and tributaries from below Bismarck, N. Dak., to and including Sioux City, Iowa.
Sioux City, Iowa.....	Kansas River and tributaries at and above Lawrence, Kans., except the Republican River; and Osage Rivers and tributaries in Kansas.
Topeka, Kans.....	Delaware River and tributaries except the Schuylkill River.
Trenton, N. J.....	Mississippi River from the mouth of the White River to and including Natchez, Miss.; Yazoo and Black Rivers and tributaries.
Vicksburg, Miss. ¹	Potomac River and tributaries.
Washington, D. C.....	Arkansas River and tributaries in Kansas.
Wichita, Kansas.....	Colorado River and tributaries from below Pierce's Ferry, Ariz., to the Arizona-Mexico border at the Gila River below Gila Bend, Ariz.
Yuma, Ariz.....	

River stations, arranged by drainage areas, and miscellaneous information pertaining thereto—Continued

Station	River	Length of record ¹	Elevation of gage zero above mean sea level ²	Distance of gage above mouth of river ³	Drainage area above gage ⁴	Flood stage	Extreme stages from gage		
							Highest	Date	Lowest
MISSISSIPPI SYSTEM—Continued									
Ohio Basin—Continued									
		Years	Feet	Miles	Sq. miles	Feet	Feet		Feet
Elkins, W. Va.	Tygart	8	1,900.36			14			
Philippi, W. Va.	do.	21	1,276.8	46	923	20	26.7	Oct. 29, 1937	0.1
Weston, W. Va.	West Fork	37	995.60	69	133	15	20.25	Apr. 16, 1939	-7
Confluence, Pa.	Youghiogheny	67	1,307.40	68	982	12	21.9	Mar. 29, 1924	7
Connellsville, Pa.	do.	32	860.13			13	20.5	do.	
West Newton, Pa.	do.	50	740.68	19	1,506	20	30.6	Feb. 27, 1912	-2
Lock No. 15, Hout, W. Va.	Monongahela	36	838.9	124.2	2,437	22	29.4	Jan. 2, 1919	7
Lock No. 10, Morgantown, W. Va.	do.	67	785.65	101.5	2,083	25	37.0	July 10, 1888	-2
Lock No. 7, Greensboro, Pa.	do.	52	753.0	84.8	4,447	30	40.4	Mar. 18, 1936	6.2
Lock No. 4, Charleroi, Pa.	do.	54	716.17	41.5	5,223	30	43.53	July 11, 1888	4.73
McKeesport, Pa.	do.	27	718.25	14.6	7,161	20	28.8	Mar. 18, 1936	9
Sharon, Pa.	Shenango	28	839.82	28.2	576	9	18.6	Mar. 26, 1913	1.7
Beaver Falls, Pa.	Beaver	32		4.0	3,086	15	17.4	Mar. 27, 1913	1.9
Walhonding, Ohio	Walhonding	26		23	1,537	8	16.9	Jan. 15, 1937	-1.3
Newcomerstown, Ohio	Tuscarawas	12	780.03	23	2,432	16	21.2	Aug. 9, 1935	3.8
Coshocton, Ohio	do.	32	733.52	2	4,843	11	30.5	Mar. 26, 1913	1.2
Lock No. 10, Zanesville, Ohio	Muskingum	49	665.3	75.8	6,840	25	61.8	Mar. 27, 1913	4.3
Lock No. 7, McConnellsville, Ohio	do.	27	635.0	48.2	7,411	22	49.1	do.	3.4
Lock No. 3, Lowell, Ohio	do.	11	588.1	13.9	7,978	25	30.3	Aug. 10, 1935	5.8
Lock No. 1, Marietta, Ohio: Upper gage	do.	26	575.38	2	8,038	28	47.0	Jan. 26, 1937	-7.9
Glenville, W. Va.	Little Kanawha	39	697.79	103.0	365	23	33.6	Nov. 16, 1926	-9
Creston, W. Va.	do.	39	621.71	48.0	1,214	20	33.2	Apr. 17, 1939	-3.0
Athens, Ohio	Hocking	24	615.59	31.6	944	17	22.4	Jan. 23, 1937	2.2
Camden on Gauley, W. Va.	Gauley	24	2,003.28	71	238	23			
Summersville, W. Va.	do.	20		42	664	18	28.75	July 4, 1932	.64
Ivanhoe, Va.	New	23	1,941.9	194	1,311	15	20.0	Oct. 2, 1929	0
Radford, Va.	do.	44		145	2,761	14	32.3	July 16, 1916	-2.0
Glenlyn, Va.	do.	14	1,492.0	95	3,859	11	14.8	Oct. 3, 1929	1
Hinton, W. Va.	do.	53	1,352.04	63	6,288	14	20.2	Sept. 13, 1878	7
Clay, W. Va.	Elk	25	676.60	53.2	1,016	18	32.4	Mar. 14, 1918	1
Kanawha Falls, W. Va.	Kanawha	26	622.88	95.0	8,416	25	31.7	July 17, 1916	-9
London Dam, London, W. Va.	do.	6	581.0	82.8	8,552	43			
Charleston, W. Va.	do.	67	558.65	58.4	10,495	34	41.6	Sept. 14, 1878	-1
Lock No. 6, S. Charleston, W. Va.	do.	53	547.90	54.0	10,587	42	48.9	Mar. 5, 1899	1.65
Logan, W. Va.	Guyandot	18	639.08	81.4	859	20	27.0	Jan. 28, 1918	0
Wayne, W. Va.	Twelvepole Creek	15	604.74	28.8	305	25	28.3	June 30, 1928	-2
Williamson, W. Va.	Tug Fork	33		57.3	941	38	38.1	Jan. 29, 1918	-8
Pikeville, Ky.	Levisa Fork	32	634.03	88.5	1,225	35	49.0	Jan. 28, 1918	-3
Paintsville, Ky.	do.	12	566.67	38.5		40	42.15	Feb. 4, 1939	1.06
Lock No. 3, Louisa, Ky.	Big Sandy	51	516.81	26.6	3,821	45	48.0	Mar. 6, 1899	7
Delaware, Ohio	Olentangy	30	848.58	26.2	415	9	25.5	Mar. 25, 1913	-1
La Rue, Ohio	Scioto	24	910.19	196.2	255	11	15.0	Mar. 20, 1927	1.9
Prospect, Ohio	do.	33	891.72	172.2	554	10	15.0	Mar. 22, 1927	2
Columbus, Ohio	do.	42	700.03	131.9	1,613	22	22.9	Mar. 25, 1913	-8
Circleville, Ohio	do.	38	643.03	100.4	3,217	14	28.2	Mar. 26, 1913	1.8
Chillicothe, Ohio	do.	32	594.02	70.4	3,847	16	39.8	do.	1.0
Kings Mills, Ohio	Little Miami	15	587.10	28.1	1,048	17	33.7	do.	5
Cynthiana, Ky.	South Fork	23		46	641	20	22.6	Dec. 24, 1921	5
Farmers, Ky.	Licking	23	646.44	172	782	25	31.1	Feb. 9, 1918	1.1
Falmouth, Ky.	do.	53	511.38	51.2	2,267	28	41.4	Jan. 23, 1937	-1
Pleasant Hill, Ohio	Stillwater	24	846.60	29.2	502	13	17.5	Jan. 15, 1937	7
Springfield, Ohio	Mad.	26	881.95	23.6	477	11	15.1	do.	1.4
Brookville, Ind.	Whitewater	22	595.73	27	1,230	20	25.66	Feb. 26, 1929	2
Sidney, Ohio	Miami	26	924.74	134.8	545	12	14.2	Mar. 21, 1927	0
Piqua, Ohio	do.	29	844.00	122.1	850	17	29.1	Mar. 25, 1913	7
Tipp City, Ohio	do.	17	786.77	104.5	955	27	13.8	Mar. 21, 1927	5
Dayton, Ohio	do.	47	721.01	84.5	2,515	21	31.7	Mar. 25, 1913	-1
Miamisburg, Ohio	do.	17	678.44	68.6	2,719	22	20.6	Jan. 22, 1937	-3
Franklin, Ohio	do.	17	658.41	61.3	2,731	16	16.7	do.	0
Middletown, Ohio	do.	17	621.00	52.3	3,158	15	19.0	Feb. 27, 1929	0
Hamilton, Ohio	do.	30	560.00	35.3	3,637	17	43.1	Mar. 26, 1913	-1.7
Hazard, Ky.	do.	15	837.57	96.0	442	20	33.8	May 30, 1927	-4
Jackson, Ky.	North Fork	34	698.67			28	41.9	do.	3
Lock No. 14, Heidelberg, Ky.	Kentucky	23	627.2	249.3	2,639	30	35.6	Feb. 4, 1939	4.8
Lock No. 10, Ford, Ky.	do.	34	556.8	176.3	3,948	30	35.1	Mar. 29, 1913	9.0
Lock No. 7, Highbridge, Ky.	do.	39	503.66	117.0	5,024	30	42.2	Jan. 23, 1937	4.7
Lock No. 4, Frankfort, Ky.	do.	54	462.17	65.0	5,396	31	47.56	Jan. 25, 1937	3.2
Bowling Green, Ky.	Barren	16	408.04	29.5	1,875	20	40.7	Jan. 23, 1937	0
Munfordville, Ky.	Green	15	452.20	219	1,707	28	44.5	Dec. 18, 1916	1.7
Lock No. 6, Brownsville, Ky.	do.	23	403.26	180.6	2,751	28	54.7	Jan. 24, 1937	6.1
Lock No. 4, Woodbury, Ky.	do.	41	373.80	149.5	5,446	33	59.0	do.	5.0
Lock No. 2, Rumsey, Ky.	do.	41	343.64	62.8	7,681	34	64.42	Jan. 31, 1937	3.7
Anderson, Ind.	West Fork	29		242.6	428	10	22.9	Mar. 25, 1913	3.8
Noblesville, Ind.	do.	26		215.1	844	14	18.8	Jan. 16, 1937	3.0
Indianapolis, Ind.	do.	29	672.92	185.3	1,590	18	29.5	Mar. 26, 1913	2.0
Elliston, Ind.	do.	32	472.94	78.2	4,470	18	31.3	Mar. 27, 1913	5.5
Edwardsport, Ind.	do.	17		32.6	4,995	12	20.8	Jan. 18, 1937	2.2
Seymour, Ind.	East Fork	17	550.7	167.6	2,292	14	19.5	Jan. 16, 1937	3
Williams, Ind.	do.	19	472.56	79.2	4,584	10	25.0	Jan. 25, 1937	-2.0
Shoals, Ind.	do.	32	442.21	56.0	4,828	25	42.2	Mar. 28, 1913	1.2
Petersburg, Ind.	White	5	400.00	47.8	11,100	16	28.1	Jan. 21, 1937	0
Hazleton, Ind.	do.	16	383.26	18.9	11,200	16	31.6	Jan. 22, 1937	7
Bluffton, Ind.	Wabash	29		421.8	555	10	20.0	Mar. 20, 1913	2
Wabash, Ind.	do.	17			1,740	12			
Logansport, Ind.	do.	22		343.2	3,860	17	25.3	Mar. 26, 1913	2.2
La Fayette, Ind.	do.	26	504.14	301.4	7,324	11	25.5	Feb. 27, 1936	5
Covington, Ind.	do.	13	473.97	260.5	8,309	16	28.8	Feb. 29, 1936	1.2
Terre Haute, Ind.	do.	41	445.78	204.4	12,333	14	31.3	Mar. 27, 1913	-2.0
Vincennes, Ind.	do.	23	396.43	117.2	13,840	14	25.2	Jan. 17, 1930	-8
Mount Carmel, Ill.	do.	56	371.46	83.9	28,506	17	31.0	Mar. 30, 1913	-2
New Harmony, Ind.	do.	6	353.20	44.0		15	24.4	Jan. 30, 1937	0.1
New River, Tenn.	New	32	1,082.67	8.0	383	18			
Rock Island, Tenn.	Caney Fork	29	649.46	90.3	1,656	30	40.6	Mar. 23, 1929	0
Williamsburg, Ky.	Cumberland	32	892.40	592.7	1,673	19	30.4	Mar. 25, 1929	-2.5
Burnside, Ky.	do.	55	585.25	518.4	4,949	50	69.4	Mar. 24, 1929	-1.6
Celina, Tenn.	do.	36	489.47	383.1	7,323	28	57.11	Dec. 29, 1928	-2

See footnotes at end of table.

MISSISSIPPI SYSTEM—OHIO BASIN—Continued

1939	January	February	March	April	May	June	July	August	September	October	November	December	1939	January	February	March	April	May	June	July	August	September	October	November	December
WABASH RIVER AT WABASH, IND.													WABASH RIVER AT COVINGTON, IND.												
Wabash—Ohio													Wabash—Ohio												
[Flood stage, 12 feet]													[Elevation of gage zero, 473.97 feet, m. s. l. Flood stage, 16 feet]												
1	2.5	7.0	13.1	4.2	4.4	2.8	4.0	4.6	2.1	2.1	3.1	2.4	1	3.8	7.0	11.5	7.1	9.5	4.7	5.2	6.5	3.1	2.6	4.4	3.2
2	2.5	9.1	12.9	4.1	4.2	2.8	3.8	4.1	2.1	2.1	2.9	2.5	2	3.9	10.5	15.5	7.1	8.7	4.7	5.3	6.3	3.0	2.6	3.8	3.3
3	2.5	12.1	11.8	4.0	4.0	2.8	3.6	3.8	2.1	2.0	2.7	2.6	3	3.8	12.2	17.3	6.8	8.2	4.8	5.6	5.6	3.0	2.7	3.7	3.3
4	2.5	9.0	0.4	3.9	3.9	2.7	3.1	3.4	2.1	1.9	2.6	2.8	4	3.7	13.8	19.2	6.6	7.7	4.7	5.2	5.3	3.0	2.6	3.5	3.4
5	3.4	7.4	11.2	3.8	3.7	2.6	3.4	3.3	2.1	1.9	2.5	2.5	5	4.2	13.4	17.8	6.5	7.3	4.6	4.9	5.0	3.0	2.7	3.4	3.4
6	4.2	7.1	12.2	3.8	3.7	2.6	3.6	3.0	2.0	2.1	2.4	2.6	6	4.8	11.1	17.3	6.2	7.1	4.5	5.7	4.6	3.0	2.7	3.3	3.4
7	4.3	5.8	10.6	3.7	3.6	2.6	3.1	2.8	2.0	2.1	2.4	2.6	7	5.1	9.2	17.3	6.2	6.9	4.4	5.3	4.2	3.0	2.7	3.2	3.4
8	3.8	5.8	8.3	3.6	3.5	2.8	2.6	2.7	1.9	2.1	2.4	2.4	8	6.1	8.3	17.5	6.1	6.8	4.2	5.0	4.1	2.9	2.6	3.2	3.4
9	3.6	6.7	7.4	3.8	3.5	3.0	2.6	2.7	2.1	2.2	2.4	2.5	9	6.0	7.4	16.0	5.9	6.6	4.5	4.7	4.8	2.9	2.6	3.1	3.4
10	3.7	9.2	6.3	3.7	3.5	3.3	2.5	3.0	2.0	2.1	2.3	2.4	10	5.7	8.3	13.1	5.9	6.6	4.5	4.4	4.4	2.8	2.7	3.2	3.3
11	3.8	11.6	5.4	6.0	3.4	5.1	2.4	2.7	2.0	2.1	2.3	2.4	11	5.6	11.9	11.6	6.1	6.2	8.0	4.3	4.0	2.7	3.0	3.2	3.3
12	3.0	9.4	18.9	6.6	3.3	4.9	2.4	2.6	2.0	2.1	2.3	2.4	12	5.8	15.4	19.6	8.0	6.0	0.0	4.1	4.0	2.6	3.5	3.2	3.2
13	3.4	8.0	21.1	5.6	3.2	4.0	2.3	2.5	2.0	2.1	2.3	2.4	13	5.6	15.5	21.8	0.6	5.8	0.8	3.7	3.8	2.6	3.0	3.2	3.2
14	3.2	6.8	19.9	5.0	3.1	3.8	2.3	2.4	1.9	2.1	2.3	2.4	14	5.3	13.9	25.6	0.4	5.7	8.2	3.8	3.8	2.0	2.8	3.2	3.2
15	3.1	5.7	19.3	6.8	3.0	3.5	2.2	2.3	1.9	2.2	2.2	2.4	15	5.1	11.5	27.2	11.3	5.5	7.0	3.5	3.6	2.6	2.6	3.2	3.2
16	3.1	4.7	16.2	11.6	3.0	3.3	2.2	2.3	2.0	2.2	2.2	2.4	16	4.9	9.6	26.1	17.2	5.5	6.2	3.6	3.4	2.0	2.6	3.2	3.2
17	3.0	4.5	10.8	16.8	2.9	3.3	2.2	2.3	1.9	2.1	2.3	2.4	17	4.8	8.3	24.2	19.9	5.4	5.8	3.5	3.4	2.7	2.7	3.2	3.2
18	3.4	4.1	8.1	16.9	2.9	3.2	2.4	2.2	1.8	2.0	2.2	2.3	18	4.7	7.6	22.1	23.0	5.3	5.4	15.1	3.3	2.6	2.7	3.2	3.2
19	3.0	6.7	5.9	15.2	2.9	3.0	2.4	4.5	1.8	2.1	2.3	2.4	19	4.6	7.3	19.5	25.0	5.3	5.3	15.2	4.1	2.6	2.8	3.1	3.1
20	3.0	15.2	5.4	12.4	2.8	2.8	2.4	3.6	1.8	2.0	2.3	2.3	20	4.0	13.1	15.7	24.7	5.2	5.3	11.5	3.5	2.6	2.8	3.1	3.1
21	3.0	15.3	5.0	9.9	3.1	2.8	2.4	2.6	1.8	2.0	2.3	2.3	21	4.4	17.2	12.5	23.1	5.0	5.1	8.0	3.4	2.0	2.7	2.1	3.1
22	3.2	12.7	4.7	12.2	4.6	2.8	2.4	2.5	1.8	2.0	2.4	2.3	22	4.4	19.2	10.6	21.0	5.0	6.3	6.2	3.4	2.6	2.8	3.1	3.1
23	3.4	9.1	4.6	10.3	3.5	3.4	5.3	2.7	2.0	2.1	2.6	2.3	23	4.4	20.8	9.9	20.4	5.4	7.0	5.0	4.0	2.6	2.8	3.2	3.0
24	4.3	7.5	4.4	7.9	3.2	4.8	3.9	2.5	1.9	2.0	2.5	2.3	24	4.1	20.6	9.2	19.8	6.4	7.0	4.7	3.8	2.0	2.7	3.2	3.0
25	4.2	5.7	4.3	6.4	3.0	4.3	3.1	2.4	1.9	2.0	2.6	2.3	25	4.7	18.5	8.2	18.7	5.8	6.2	4.5	3.7	2.5	2.7	3.2	3.0
26	3.7	4.6	4.2	5.6	3.5	3.6	3.0	2.3	2.0	3.8	2.5	2.3	26	5.1	14.9	8.2	16.9	5.1	6.1	6.2	3.5	2.5	2.8	3.2	3.0
27	3.7	4.6	4.2	5.3	2.9	3.2	4.8	2.3	1.9	5.3	2.5	2.2	27	5.6	11.8	8.0	13.6	5.0	5.9	6.5	3.4	2.5	3.0	3.2	3.0
28	3.8	4.6	4.2	5.7	2.9	3.8	3.7	2.3	1.9	5.1	2.4	2.2	28	5.6	10.1	7.8	11.8	5.5	5.4	6.3	3.3	2.0	3.8	3.2	3.0
29	3.3	-----	4.2	5.2	2.9	4.6	5.6	2.2	1.9	4.3	2.4	2.4	29	5.5	-----	7.6	10.8	5.3	5.5	6.4	3.2	2.6	4.0	3.2	3.0
30	3.2	-----	4.5	4.6	2.5	3.5	5.8	2.1	2.0	3.6	2.4	2.3	30	6.8	-----	7.3	10.1	4.9	5.3	5.9	3.2	2.6	5.0	3.2	3.3
31	3.6	-----	4.3	-----	2.5	-----	6.0	2.1	-----	3.4	-----	2.3	31	8.0	-----	7.2	-----	4.8	-----	5.8	3.2	-----	4.6	-----	3.3
M'n	3.4	8.2	9.1	7.2	3.3	3.4	3.3	2.8	2.0	2.5	2.4	2.4	M'n	5.2	12.4	15.2	12.8	6.1	5.9	6.0	4.1	2.7	3.0	3.3	3.2
WABASH RIVER AT LA FAYETTE, IND.													WABASH RIVER AT TERRE HAUTE, IND.												
Wabash—Ohio													Wabash—Ohio												
[Elevation of gage zero, 504.14 feet, m. s. l. Flood stage, 11 feet]													[Elevation of gage zero, 445.78 feet, m. s. l. Flood stage, 14 feet]												
1	1.5	5.1	9.9	4.4	5.3	2.3	3.0	3.9	1.2	0.9	1.9	1.3	1	0.5	11.4	13.5	5.8	9.6	2.8	3.9	3.8	1.2	0.5	1.8	0.8
2	1.4	7.6	14.7	3.9	4.9	2.4	3.0	3.0	1.2	0	1.0	1.3	2	0.7	9.8	13.8	5.8	8.5	3.3	3.7	3.8	1.2	0.6	1.5	1.0
3	1.9	10.2	14.8	3.8	4.4	2.4	2.7	2.6	1.2	0	1.5	1.3	3	0.8	12.3	14.1	5.6	7.7	3.0	3.6	3.9	1.1	0.8	1.5	1.0
4	1.7	10.9	13.0	3.6	4.1	2.3	2.6	2.7	1.2	0	1.4	1.3	4	0.9	12.7	14.4	5.2	7.0	3.0	3.4	3.4	1.1	0.6	1.2	0.9
5	2.4	8.6	11.4	3.5	4.0	2.2	2.5	2.2	1.1	0	1.3	1.3	5	1.8	12.4	14.6	5.0	6.6	2.8	3.2	3.1	1.1	0.6	1.1	0.9
6	2.4	6.2	13.0	3.4	4.0	2.1	2.3	1.9	1.1	0	1.3	1.4	6	2.0	11.7	15.2	5.2	6.1	2.8	3.2	2.7	1.0	0.7	0.9	0.9
7	3.3	5.4	13.8	3.6	3.9	1.9	2.4	1.8	1.1	0	1.2	1.4	7	3.1	9.9	15.4	5.1	5.8	2.5	6.3	2.7	1.0	0.7	0.9	0.9
8	3.6	4.6	11.7	3.2	3.6	2.1	2.3	1.0	1.1	0	1.2	1.6	8	3.2	8.1	15.4	4.8	5.5	2.5	5.8	2.2	1.0	0.7	0.8	1.0
9	3.2	4.4	8.9	3.2	3.4	2.2	2.0	1.8	0.9	0	1.2	1.3	9	3.5	7.0	15.2	4.7	5.4	2.4	4.8	2.0	1.0	0.7	0.8	1.0
10	3.0	5.8	7.7	3.1	3.3	2.1	1.9	1.6	0.9	1.2	1.2	1.3	10	3.7	7.8	14.8	4.3	5.3	2.5	3.5	3.2	0.9	0.7	0.9	1.0
11	3.0	11.4	6.5	4.5	3.4	5.2	1.8	1.7	0.8	1.7	1.2	1.3	11	3.6	11.0	14.1	4.4	5.1	4.2	3.0	2.8	0.8	0.7	0.9	1.0
12	3.0	12.4	14.3	5.8	3.1	6.0	1.5	1.0	0.8	1.1	1.3	1.2	12	3.5	12.4	15.8	4.9	4.8	8.4	2.6	2.4	0.8	0.7	0.9	1.0
13	2.7	10.4	21.5	6.7	3.1	5.2	1.5	1.5	0.9	0.9	1.3	1.2	13	3.4	13.0	19.0	6.2	4.6	10.0	2.4	2.2	0.8	1.0	0.9	0.9
14	2.8	8.2	23.2	5.8	2.9	4.1	1.4	1.5	0.9	0.9	1.2	1.2	14	3.3	13.2	21.7	7.3	4.3	9.0	2.2	2.2	0.7	0.9	0.9	0.9
15	2.7	6.6	22.5	8.8	2.8	3.3	1.4	1.4	0.9	0.9	1.2	1.2	15	3.0	12.6	23.9	7.6	4.1	6.9	2.1	1.9	0.7	0.9	0.9	0.9
16	2.2	5.4	20.1	15.9	2.9	3.1	1.3	1.3	0.8	0.9	1.2	1.2	16	2.8	10.5	24.8	13.4	3.9	5.4	1.8	1.9	0.7	0.8	0.9	0.9
17	2.3	4.2	17.6	17.9	2.7	2.7	1.3	1.3	0.8	0.9	1.2	1.2	17	2.6	8.1	23.9	15.9	3.9	4.4	1.7	1.5	0.8	0.7	1.0	0.9
18	2.3	3.9	13.8	21.1	2.7	2.7	1.3	1.3	1.0	0.9	1.2	1.1	18	2.5	6.7	22.4	18.3	3.8	4.0	1.6	1.2	0.9	0.7	0.9	1.0
19	2.3	4.0	9.9	20.6	2.6	2.5	4.4	1.4	0.8	1.0	1.2	1.2	19	2.5	5.8	20.5	21.3	3.6	3.6	11.7	5.6	0.8	0.7	0.9	1.0
20	2.2	12.3	8.2	18.7	2.5	2.3	2.4	1.3	0.8	0.9	1.2	1.1	20	2.4	10.0	18.8	22.0	3.4	3.7	14.1	4.9	0.8	0.7	0.9	

MISSISSIPPI SYSTEM—OHIO BASIN—Continued

1939	January	February	March	April	May	June	July	August	September	October	November	December
WABASH RIVER AT VINCENNES, IND.												
Wabash—Ohio												
[Elevation of gage zero, 396.43 feet, m. s. l. Flood stage, 14 feet]												
1	0.7	11.4	14.0	5.7	14.2	2.7	3.4	3.4	1.0	0.3	1.2	0.4
2	.7	11.7	14.3	5.3	12.5	3.5	3.4	3.3	1.0	.3	1.3	.4
3	.7	10.9	14.1	5.1	10.2	3.3	3.2	3.2	.9	.3	1.1	.4
4	.8	10.6	13.6	4.9	8.5	3.1	3.1	3.1	.8	.3	.8	.4
5	1.2	11.4	13.6	4.6	7.2	2.8	2.9	2.9	.7	.3	.7	.5
6	2.4	11.4	13.9	4.5	6.4	2.5	2.8	2.7	.7	.3	.7	.5
7	2.9	11.1	14.0	5.8	5.7	2.4	3.1	2.5	.7	.3	.7	.5
8	3.1	10.2	13.2	5.5	5.3	2.2	4.0	2.3	.7	.3	.6	.4
9	2.9	8.6	13.1	4.7	5.3	2.2	5.2	1.9	.7	.3	.5	.4
10	3.1	7.4	12.9	4.4	5.1	2.4	4.6	2.0	.7	.3	.4	.4
11	3.3	8.8	12.7	4.2	4.8	3.4	3.8	2.2	.7	.3	.4	.4
12	3.2	9.8	13.7	4.1	4.5	4.3	2.8	2.4	.6	.3	.4	.4
13	3.0	10.4	15.0	4.2	4.1	5.9	2.4	2.1	.6	.3	.4	.4
14	2.9	10.8	16.1	4.7	4.0	7.7	2.2	1.9	.5	.3	.4	.4
15	2.8	10.9	17.0	5.7	3.9	7.7	2.0	1.7	.4	.4	.4	.4
16	2.8	10.6	18.9	9.4	3.5	6.3	1.7	1.0	.4	.5	.4	.4
17	2.7	9.5	21.3	13.3	3.4	4.9	1.6	1.6	.4	.3	.4	.4
18	2.6	8.4	22.9	15.1	3.3	4.3	1.5	1.5	.4	.3	.4	.4
19	2.6	6.5	23.6	16.2	3.2	3.7	1.5	1.3	.5	.3	.4	.4
20	2.5	7.0	23.7	17.0	3.1	3.3	5.0	3.0	.4	.3	.5	.3
21	2.5	8.9	23.1	18.6	3.0	3.7	8.4	4.2	.4	.3	.5	.3
22	2.6	10.5	22.0	20.8	3.0	5.3	9.4	3.4	.4	.3	.5	.3
23	2.7	11.6	20.4	21.9	2.9	7.1	8.2	2.6	.4	.3	.5	.3
24	2.6	11.7	18.4	22.3	2.8	7.9	5.8	2.2	.4	.3	.5	.3
25	2.4	12.0	16.2	22.0	2.9	7.2	4.0	1.9	.3	.3	.4	.3
26	2.0	12.1	13.4	21.2	3.2	6.0	3.5	1.7	.3	.3	.4	.3
27	1.6	12.3	10.4	20.1	3.2	5.2	3.8	1.6	.3	.3	.4	.3
28	1.3	13.0	8.8	18.8	2.8	4.6	3.9	1.5	.3	.4	.4	.3
29	1.8	-----	7.7	17.5	2.7	4.2	4.1	1.3	.3	.5	.3	.2
30	2.9	-----	6.9	16.1	2.6	3.6	4.0	1.2	.3	.5	.3	.2
31	9.9	-----	6.1	-----	2.6	-----	3.7	1.1	.7	.7	.2	.2
M'n	2.6	10.3	15.3	11.5	4.8	4.4	3.8	2.2	.5	.3	.6	.4

WABASH RIVER AT MOUNT CARMEL, ILL.

Wabash—Ohio

[Elevation of gage zero, 371.46 feet, m. s. l. Flood stage, 17 feet]

1	1.3	14.0	16.6	9.1	19.9	3.4	5.2	4.4	1.6	0.6	1.0	0.7
2	1.4	16.2	17.3	8.9	18.1	5.3	5.0	4.7	1.5	.6	1.1	.7
3	1.4	16.8	17.8	8.5	16.1	5.1	4.7	4.7	1.4	.6	1.2	.8
4	1.4	17.1	17.9	8.3	13.6	4.7	4.4	4.7	1.4	.6	1.2	.8
5	1.8	17.4	18.7	7.8	11.3	4.4	4.3	4.3	1.2	.5	1.1	.8
6	4.6	17.9	19.3	7.9	9.5	4.2	4.1	3.9	1.2	.5	1.0	.8
7	6.7	18.4	19.6	9.3	8.3	3.8	3.8	3.5	1.2	.5	.9	.8
8	7.4	18.7	20.0	10.1	7.5	3.6	4.5	3.5	1.1	.5	.8	.8
9	7.2	18.3	20.2	10.5	7.1	3.7	5.0	3.0	1.1	.5	.8	.8
10	7.0	17.5	20.3	10.3	7.3	4.0	5.0	2.7	1.1	.5	.7	.8
11	6.4	16.8	20.2	10.1	6.9	4.2	4.8	2.8	1.0	.5	.7	.8
12	5.9	16.0	20.1	9.5	6.5	5.1	4.1	2.9	.9	.5	.7	.7
13	5.5	16.6	20.3	9.0	6.1	5.9	3.9	2.7	.9	.5	.7	.7
14	5.1	16.8	20.5	8.8	5.8	5.6	3.6	2.4	.9	.5	.7	.7
15	4.8	16.8	20.9	9.1	5.4	5.2	3.1	2.5	.8	.5	.7	.7
16	4.5	16.8	21.7	11.6	5.1	5.1	2.8	2.3	.8	.6	.6	.7
17	4.4	16.3	22.8	17.4	4.8	5.1	2.6	2.2	.8	.6	.6	.7
18	4.3	15.2	23.7	19.1	4.0	7.1	2.3	2.0	.7	.5	.6	.7
19	4.3	13.3	24.4	20.4	4.4	6.1	2.2	2.0	.8	.5	.6	.7
20	4.3	12.2	24.7	21.9	4.2	5.4	2.4	2.0	.9	.5	.7	.6
21	4.3	13.1	24.7	23.1	4.0	5.5	2.4	4.2	.8	.5	.7	.6
22	4.3	14.3	24.4	24.0	4.0	5.5	2.4	4.1	.7	.5	.7	.6
23	4.8	15.0	23.7	24.8	3.9	8.7	7.9	3.9	.7	.4	.7	.6
24	4.8	15.7	23.5	25.2	3.9	10.1	6.7	3.8	.7	.4	.7	.6
25	4.6	16.1	20.4	25.1	3.8	10.4	5.1	3.5	.7	.5	.7	.6
26	4.3	16.3	17.8	24.8	3.8	9.7	4.4	3.4	.6	.5	.7	.6
27	3.9	16.3	14.9	24.2	4.0	8.9	4.2	2.4	.6	.7	.5	.6
28	3.6	16.3	12.0	23.6	3.9	7.9	4.1	2.1	.6	.7	.5	.6
29	3.5	-----	10.4	22.7	3.6	6.9	4.4	2.1	.6	.7	.5	.6
30	6.1	-----	9.5	21.4	3.4	5.9	4.4	1.9	.6	.7	.5	.6
31	12.3	-----	9.3	-----	3.4	-----	4.3	1.7	.7	.7	.5	.6
M'n	4.7	16.2	19.2	15.6	6.9	6.4	4.5	3.1	.9	.5	.8	.7

1 Frozen, but open at gage.

2 Stage of upper surface of smooth ice.

3 Crest 8.1 at 5 p. m.

4 Crest 4.4 at 5 p. m.

5 Crest 21.0 at 5:30 p. m.

6 Readings from July to November, inclusive, furnished by the U. S. Geological Survey.

7 Crest 34.0 at 5 p. m.

1939	January	February	March	April	May	June	July	August	September	October	November	December
WABASH RIVER AT NEW HARMONY, IND.												
Wabash—Ohio												
[Elevation of gage zero, 353.20 feet, m. s. l. Flood stage, 15 feet]												
1	1.4	10.4	13.2	7.3	17.4	3.1	4.5	3.7	1.7	0.6	0.7	0.7
2	1.4	12.1	13.4	7.0	16.4	3.7	4.1	3.7	1.6	.6	1.0	.7
3	1.4	12.8	13.8	6.7	15.0	4.6	4.0	3.8	1.5	.6	1.3	.7
4	1.5	13.2	14.1	6.5	13.2	4.3	3.8	3.8	1.4	.6	1.3	.7
5	1.7	13.3	14.7	6.2	10.8	4.0	3.7	3.8	1.3	.6	1.2	.7
6	2.5	13.6	15.2	6.3	8.7	3.7	3.6	3.7	1.3	.6	1.1	.7
7	4.5	14.0	15.5	6.8	8.0	3.5	3.3	3.7	1.2	.6	1.1	.7
8	5.5	14.3	15.7	7.7	6.2	3.2	3.3	3.5	1.2	.6	1.0	.8
9	5.6	14.6	16.0	8.0	5.8	3.4	4.0	3.3	1.2	.6	1.0	.8
10	5.6	14.7	16.1	8.0	5.8	3.6	4.6	2.9	1.1	.6	.9	.8
11	5.2	14.3	16.1	7.9	5.6	3.8	4.3	2.7	1.1	.6	.9	.8
12	4.9	13.9	16.1	7.5	5.3	4.0	3.7	2.7	1.1	.6	.8	.8
13	4.6	13.8	16.2	7.1	5.0	4.4	3.4	2.6	1.1	.6	.7	.8
14	4.3	13.7	16.2	6.8	4.7	5.7	3.3	2.6	1.1	.5	.7	.8
15	4.0	13.8	16.3	6.8	4.5	6.7	3.0	2.5	1.1	.5	.7	.8
16	3.9	13.8	16.5	8.0	4.2	7.0	2.7	2.5	1.0	.5	.7	.8
17	3.8	13.7	16.9	12.1	4.0	6.6	2.5	2.5	1.0	.5	.7	.8
18	3.8	13.3	17.7	14.2	3.8	5.8	2.3	2.4	1.0	.6	.6	.7
19	3.7	12.4	18.7	15.2	3.7	5.2	2.2	2.3	.9	.6	.6	.7
20	3.6	11.4	19.7	16.0	3.6	4.7	2.2	2.3	.9	.6	.6	.7
21	3.6	10.9	20.3	16.9	3.5	4.4	3.5	2.3	.9	.6	.6	.7
22	3.6	11.4	20.4	18.0	3.4	4.5	5.2	3.3	.9	.6	.7	.6
23	3.7	12.0	20.1	19.3	3.4	5.7	5.8	3.5	.9	.6	.7	.6
24	4.0	12.4	19.5	20.3	3.3	7.0	5.6	3.3	.9	.6	.7	.6
25	4.0	12.6	18.5	20.9	3.3	7.6	4.6	3.2	.8	.5	.7	.6
26	3.8	12.8	17.1	20.9	3.2	7.5	3.6	3.1	.8	.5	.7	.6
27	3.5	12.8	15.3	20.5	3.3	7.0	3.6	2.9	.8	.5	.7	.6
28	3.3	13.2	12.8	20.0	3.4	6.4	3.6	2.7	.7	.5	.7	.6
29	3.1	-----	9.8	19.3	3.3	5.7	3.7	2.3	.6	.6	.7	.6
30	4.2	-----	8.2	18.4	3.3	5.0	3.7	2.0	.6	.6	.7	.6
31	7.4	-----	7.5	-----	3.2	3.7	1.8	-----	.6	.6	.7	.6
M'n	3.8	13.0	15.7	12.2	6.1	5.1	3.7	2.9	1.1	.6	.8	.7

NEW RIVER AT NEW RIVER, TENN.

New—South Fork—Cumberland—Ohio

[Elevation of gage zero, 1,092.67 feet, m. s. l. Flood stage, 18 feet]

1	3.2	6.7	7.9	6.0	4.2	2.3	2.7	1.6	1.7	1.5	1.4	1.4
2	3.2	5.4	6.0	5.3	3.9	2.2	2.4	1.6	1.6	1.4	1.4	1.7
3	3.1	25.7	5.2	4.8	3.7	2.5	2.1	1.6	1.6	1.4	1.4	1.8
4	3.0	12.2	4.8	4.3	3.5	2.4	2.0	1.8	1.0	1.6	1.4	1.8
5	3.4	6.0	6.4	3.9	3.3	2.3	2.3	2.0	1.6	1.7	1.4	1.9
6	5.7	5.2	9.6	3.7	3.1	2.2	2.0	1.9	1.5	1.6	1.4	1.9
7	4.7	0.4	7.1	3.8	3.0	2.1	4.0	1.8	1.6	1.7	1.4	1.9
8	4.2	0.1	0.2	4.2	2.9	2.3	3.0	2.3	1.6	1.6	1.4	1.8
9	3.9	5.4	4.0	4.8	3.8	2.2	3.0	2.0	1.6	1.6	1.4	1.8
10	3.7	0.2	4.8	4.4	4.3	2.0	2.8	2.3	1.4	1.6	1.4	1.8
11	3.6	14.1	4.2	4.1	3.8	1.8	2.7	2.1	1.4	1.6	1.4	1.7
12	3.8	0.7	4.0	5.9	3.5	2.7	2.8	2.1	1.4	1.6	1.4	1.7
13	4.3	5.0	4.0	5.2	3.2	2.6	2.3	2.0	1.4	1.6	1.4	1.7
14	7.9	5.1	4.8	4.7	3.0	2.0	2.1	1.0	1.4	1.6	1.4	1.8
15	5.6	13.7	4.3	4.3	2.8	2.5	2.0	1.8	1.3	1.6	1.4	1.8
16	4.7	7.8	4.5	3.9	2.7	2.4	1.9	1.7	1.3	1.5	1.5	1.7
17	4.1	0.0	4.3	3.7	2.5	2.3	1.9	1.9	1.7	1.3	1.5	1.7
18	4.2	5.0	4.2	3.9	2.4	2.2	1.8	1.6	1.3	1.5	1.5	1.7
19	5.3	4.8	4.1	3.8	2.3	2.2	1.8	1.6	1.3	1.4	1.5	1.7
20	4.8	4.0	3.9	3.7	2.2	2.1	1.7	1.6	1.3	1.4	1.5	2.0
21	4.3	5.1	2.7	3.6	2.1	2.1	1.7	1.6	1.3	1.4	1.6	2.1
22	4.0	4.8	2.6	3.6	2.1	2.2	1.7	1.6	1.3	1.4	1.6	2.2
23	3.7	4.6	3.6	3.6	2.0	2.4	1.6	1.5	1.3	1.4	1.6	2.3
24	3.8	4.2	3.3	3.2	2.0	2.4	1.6	1.7	1.4	1.4	1.6	2.4
25	4.3	3.8	3.2	3.1	2.0	2.3	1.7	1.8	1.4	1.3	1.6	2.4
26	4.2	4.1	3.1	3.3	1.9	2.3	1.9	2.8	1.5	1.3	1.7	2.5
27	4.0	4.9	3.0	3.8	2.8	2.2	2.0	2.4	1.5	1.4	1.7	2.6
28	3.8	10.5	6.7	4.2	2.7	2.2	1.8	2.2	1.5	1.4	1.7	2.7
29	3.7		4.9	4.9	2.6	2.1	1.7	2.0	1.5	1.5	1.7	2.7
30	7.8		5.9	4.6	2.5	2.2	1.7	2.0	1.5	1.5	1.7	2.8
31	9.1		9.1		2.4		1.7	1.8		1.4		2.8

[Omission of page number under "gage readings" indicates the record is short and broken, and is not published. A copy of available readings may be obtained by application to the Chief of the Weather Bureau]

Station	River	Miscellaneous data	Gage readings	Station	River	Miscellaneous data	Gage readings
McKeesport, Pa.	Monongahela	6	90	Pleasant Hill, Ohio	Stillwater	6	98
Macon, Ga.	Ocmulgee	4	49	Plymouth, N. H.	Pemigewasset	3	28
Madison, Ark.	St. Francis	8	143	Point Pleasant, W. Va.	Ohio	7	110
Manchester, N. H.	Merrimack	3	28	Poplar Bluff, Mo.	Black	7	128
Manila, Ark.	Big Lake Outlet	8	142	Portage, Wis.	Wisconsin	4	65
Mankato, Minn.	Minnesota	4	64	Port Jervis, N. Y.	Delaware	3	32
Marble Falls, Tex.	Colorado	9	153	Portland, Mich.	Grand	3	
Marletta, Ohio	Muskingum	6		Portland, Oreg.	Willamette	9	167
Do	Ohio	7	118	Portsmouth, Ohio	Ohio	7	121
Marked Tree, Ark.	St. Francis	8	143	Poston, S. C.	Pee Dee	4	45
Markland, Ind.	Ohio	7	123	Prairie du Chien, Wis.	Mississippi	5	72
Mars Bluff Bridge, S. C.	Pee Dee	4	44	Priest River, Idaho	Clark Fork	0	164
Marysville, Calif.	Yuba	9	161	Prospect, Ohio	Scioto	6	96
Mayos Bar Lock, Ga.	Coosa	4	56	Pueblo, Colo.	Arkansas	8	
Maysville, Ky.	Ohio	7	121	Quincy, Ill.	Mississippi	5	74
Mechanicville, N. Y.	Hudson	3	31	Radford, Va.	New	6	93
Mehama, Oreg.	North Santiam	9		Rainbow, Tex.	Brazos	9	152
Melville, La.	Atchafalaya	8	148	Ralston, Okla.	Arkansas	8	135
Memphis, Tenn.	Mississippi	8	144	Randolph, Va.	Roanoke	3	40
Mendota, Va.	Holston—North Fork	7	110	Ravenswood, W. Va.	Ohio	7	118-119
Mercedes, Tex.	Rio Grande	0	157	Reading, Pa.	Schuylkill	3	32
Merrill, Miss.	Pascagoula	4	61	Reads, Minn.	Mississippi	5	71
Merrill, Wis.	Wisconsin	4	64	Red Bluff, Calif.	Sacramento	9	162
Miamishurg, Ohio	Miami	6	100	Red House, N. Y.	Allegheny	5	85
Middletown, Ohio	do	6	100	Red Wing, Minn.	Mississippi	5	71
Midland, Pa.	Ohio	7	117	Renovo, Pa.	Susquehanna—West Branch	3	35
Midville, Ga.	Ogeechee	4	49	Resaca, Ga.	Oostanula	4	55
Miles City, Mont.	Yellowstone	5		Reserve, La.	Mississippi	8	147
Milledgeville, Ga.	Oconee	4	50	Richmond, Tex.	Brazos	0	153
Millers Ferry, Ala.	Alabama	4	58	Richmond, Va.	James	3	39
Millstead, Ala.	Tallapoosa	4	57	Rimini, S. C.	Santee	4	47
Mineral Wells, Tex.	Brazos	9	152	Ringo Crossing, Tex.	Sulphur	8	139
Moline, Ill.	Rock	4	65	Rio Grande City, Tex.	Rio Grande	9	157
Moncure, N. C.	Haw	3	43	Rio Vista, Calif.	Sacramento	9	163
Monroe, La.	Ouachita	8	138	Riparia, Wash.	Snake	9	
Montague City, Mass.	Connecticut	3		River Falls, Ala.	Concuh	4	55
Montezuma, Ga.	Flint	5	52	River Junction, Fla.	Apalachicola	4	53
Montgomery, Ala.	Alabama	4	58	Riverside, Tex.	Trinity	9	151
Monticello, Miss.	Pearl	4	62	Riverton, Va.	Shenandoah	3	38
Moorhead, Minn.	Red of North	3	24	Rock Island, Tenn.	Caney Fork	0	108
Morgan City, La.	Atchafalaya	8	148	Rockland, Tex.	Neches	8	149
Morgantown, W. Va.	Monongahela	6	89	Rocky Mount, N. C.	Tar	3	41
Morrilton, Ark.	Arkansas	8	136	Rogersville, Tenn.	Holston	7	110
Morris, Ill.	Illinois	5	68	Rome, Ga.	Oostanula	4	55
Mosgrove, Pa.	Allegheny	5	86	Rosman, N. C.	French Broad	7	
Mound City, Ill.	Ohio	7		Rumsey, Ky.	Green	9	103
Mount Carmel, Ill.	Wabash	6	107	Sacramento, Calif.	Sacramento	9	163
Mud, Tex.	Colorado	9		Sageeayah, Okla.	Verdigris	8	131
Murfordsville, Ky.	Green	6	102	Saginaw, Mich.	Saginaw	3	25
Muscatine, Iowa	Mississippi	6	73	Saginaw, Oreg.	Willamette—Coast Fork	9	165
Naples, Tex.	Sulphur	8	139	St. Charles, Mo.	Missouri	5	84
Nashville, Tenn.	Cumberland	7	109	St. Francis, Ark.	St. Francis	8	142
Natchez, Miss.	Mississippi	8	146	St. Francis Lake Lock, Ark.	do	9	
Natrona, Pa.	Allegheny	5	87	St. John, Calif.	Stony Creek	9	
Nebraska City, Nebr.	Missouri	5	83	St. Joseph, Mo.	Missouri	5	83
Neuse, N. C.	Neuse	3	42	St. Louis, Mo.	Mississippi	5	75
New Braunfels, Tex.	Guadalupe	9		St. Paul, Minn.	do	5	70
Newburgh, Ind.	Ohio	7		St. Thomas, Mo.	Osage	9	167
Newcomerstown, Ohio	Tuscarawas	6	90	Salem, Oreg.	Willamette	8	
New Harmony, Ind.	Wabash	6	107	Salida, Colo.	Arkansas	5	85
New Madrid, Mo.	Mississippi	8	144	Saltshurg, Pa.	Kiskiminetas	9	
New Orleans, La.	do	8	147	Sapinero, Colo.	Gunnison	7	116
Newport, Ark.	White	7	130	Savannah, Tenn.	Tennessee	5	86
Newport, Pa.	Junata	3	35	Schenley, Pa.	Allegheny	4	58
New Richmond, Ohio	Ohio	7	121-122	Selma, Ala.	Alabama	5	85
New River, Tenn.	New	6	107	Seward, Pa.	Conemaugh	6	104
Newton, Ala.	Choctawhatchee	4	54	Seymour, Ind.	White—East Fork	6	
Nicolaus, Calif.	Feather	9	161	Sharon, Pa.	Shenango	3	33
Noblesville, Ind.	White—West Fork	6		Sherburne, N. Y.	Chenango	6	105
North Platte, Nebr.	North Platte	5	76	Shoals, Ind.	White—East Fork	8	141
Do	South Platte	5	29	Shreveport, La.	Red	4	61
North Stratford, N. H.	Connecticut	8		Shubuta, Miss.	Chickasawhay	6	99
Oklahoma City, Okla.	North Canadian	8	134	Sidney, Ohio	Miami	8	148
Omaha, Nebr.	Missouri	5	83	Simmesport, La.	Atchafalaya	5	82
Oneonta, N. Y.	Susquehanna	3	35	Sioux City, Iowa	Missouri	3	42
Orange, Tex.	Sabine	8	140	Smithfield, N. C.	Neuse	9	154
Oregon City, Oreg.	Willamette	9	167	Smithville, Tex.	Colorado	9	
Oroville, Calif.	Feather	9	161	South Charleston, W. Va.	Kanawha	6	
Osceola, Mo.	Osage	5	79	South Newbury, Vt.	Connecticut	3	
Oswego, Kans.	Neosho	8	132	Springbank, Ark.	Red	8	
Ottumwa, Iowa	Des Moines	6	67	Springfield, Mass.	Connecticut	3	30
Owensboro, Ky.	Ohio	7	125	Springfield, Ohio	Mad	5	98
Ozark, Ark.	Arkansas	8	138	Sullivan, Mo.	Meramec	5	69
Ozark Beach, Mo.	White	7	129	Summersville, W. Va.	Gaulay	6	
Paducah, Ky.	Ohio	7	128	Sunbury, Pa.	Susquehanna	3	37
Paintsville, Ky.	Levisa Fork	6	95	Swan Lake, Miss.	Tallahatchie	8	143
Paonia, Colo.	Gunnison—North Fork	9		Tarboro, N. C.	Tar	3	41
Parkersburg, W. Va.	Ohio	7	118	Terre Haute, Ind.	Wabash	6	106
Parkers Landing, Pa.	Allegheny	5	86	The Dalles, Oreg.	Columbia	10	168
Parkin, Ark.	St. Francis	8	143	Three Rivers, Tex.	Nueces	0	155
Pearl River, La.	Pearl	4	63	Tiffin, Ohio	Sandusky	3	27
Pelzer, S. C.	Saluda	4	45	Tipp City, Ohio	Miami	6	99
Pemacook, N. H.	Contoocook	3	28	Topeka, Kans.	Kansas	5	78
Peoria, Ill.	Illinois	5	68	Towanda, Pa.	Susquehanna	3	36
Perkins, Okla.	Cimarron	8	131	Tracy, Iowa	Des Moines	5	67
Peru, Ill.	Illinois	6	68	Trenton, N. J.	Thompson Fork	5	78
Petersburg, Ind.	White	6	105	Trenton, N. Y.	Delaware	3	33
Phillippi, W. Va.	Tygart	6	87	Trinities Hill, N. Y.	Mohawk	3	31
Pickwick Dam, Tenn.	Tennessee	7	110	Trinidad, Tex.	Trinity	9	151
Pierre, S. Dak.	Missouri	5	81	Trinidad, Wash.	Columbia	10	168
Pikeville, Ky.	Levisa Fork	6	95	Tulsa, Okla.	Arkansas	8	135
Pine Bluff, Ark.	Arkansas	8	137	Tuscaloosa, Ala.	Black Warrior	4	58
Piqua, Ohio	Miami	6	90	Umatilla, Oreg.	Columbia	10	168
Pittsburgh, Pa.	Ohio	7	116	Union, Mo.	Bourbeuse	5	69

UNITED STATES DEPARTMENT OF COMMERCE

JESSE H. JONES, *Secretary*

WEATHER BUREAU

F. W. REICHELDERFER, *Chief*

DAILY RIVER STAGES

AT RIVER GAGE STATIONS ON THE
PRINCIPAL RIVERS OF THE
UNITED STATES

REFERENCE
DO NOT CIRCULATE

VOLUME XXXVIII

1940-1941

Community Affairs File

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UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1943

INTRODUCTION

This volume, containing the daily river stages for 1940 and 1941, is the thirty-eighth of a series of Daily River Stages on the Principal Rivers of the United States, the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

- Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.
- II. Stages of the Mississippi River and of its Principal Tributaries, except the Ohio River, 1860 to 1889.
- III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.

DAILY RIVER STAGES AT RIVER GAGE STATIONS ON THE PRINCIPAL RIVERS OF THE UNITED STATES

Volume IV. 1890 to 1892.	Volume XIII. 1915.	Volume XXII. 1924.	Volume XXX. 1932.
V. 1893 to 1895.	XIV. 1916.	XXIII. 1925.	XXXI. 1933.
VI. 1896 to 1899.	XV. 1917.	XXIV. 1926.	XXXII. 1934.
VII. 1900 to 1904.	XVI. 1918.	XXV. 1927.	XXXIII. 1935.
VIII. 1905 and 1906.	XVII. 1919.	XXVI. 1928.	XXXIV. 1936.
IX. 1907 and 1908.	XVIII. 1920.	XXVII. 1929.	XXXV. 1937.
X. 1909 and 1910.	XIX. 1921.	XXVIII. 1930.	XXXVI. 1938.
XI. 1911 and 1912.	XX. 1922.	XXIX. 1931.	XXXVII. 1939.
XII. 1913 and 1914.	XXI. 1923.		

Volumes XVIII to XXIV, XXVI to XXVIII, and XXXIII to XXXVIII can be bought from the Superintendent of Documents, Washington, D. C.; other volumes are out of print and cannot be supplied.

The river stages are the vertical distances, in feet and tenths, of the water surface above or below the zero of the gage. The zero has, as a rule, been set at or near the lowest known water.

Gage readings are usually made at 8 a. m., seventy-fifth meridian time, east of the Continental Divide, and at 7 a. m., local time, west of the divide.

Extreme stages for a month, or important crest stages, not observed at the regular time for reading the gage, are printed as a note at the foot of the table or page. This practice was begun in 1907.

In some cases the zero planes of gages have been changed, either through accident or through necessary removals. The stations at which changes have occurred are given in a table headed "Corrigenda," and the corrections required to reduce previous readings to the zero now in use are also given in the table if they have not been previously published.

The country is divided into districts, and each district has a designated center at which the administrative and forecasting work is carried on. The following table shows the centers and their districts. Superior figure (1) opposite a center indicates that stage forecasts are made daily throughout the year, and (2) indicates that stage forecasts are made daily during seasons of navigation and in times of flood. At those centers not bearing a reference, forecasts are made only during times of flood.

ADMINISTRATIVE AND FORECASTING CENTERS AND THEIR DISTRICTS

Albany, N. Y.-----	Hudson River and tributaries.
Albuquerque, N. Mex.-----	Pecos River in New Mexico; Rio Grande and tributaries at and above Elephant Butte Reservoir Dam, N. Mex; Canadian River and tributaries in New Mexico; and the San Juan River and tributaries.
Asheville, N. C.-----	French Broad River and tributaries above North Carolina-Tennessee State line.
Atlanta, Ga.-----	Apalachicola River and tributaries.
Augusta, Ga.-----	Savannah and Ogeechee Rivers and tributaries.
Austin, Tex.-----	Colorado River (of Texas) and tributaries.
Binghamton, N. Y.-----	Susquehanna River and tributaries above Towanda, Pa.
Bismarck, N. Dak.-----	Missouri River and tributaries at and above Bismarck, N. Dak.
Brownsville, Tex.-----	Rio Grande below Laredo, Tex.
Burlington, Iowa.-----	Mississippi River and tributaries, except the Des Moines above Eldon, Iowa, from and including Dam No. 18, and its upstream gage to, but not including Dam No. 24.
Cairo, Ill. ¹ -----	Ohio River below Dam No. 50 at Fords Ferry, Ky.; Mississippi River from and including Cape Girardeau, Mo., to and including New Madrid, Mo.; Tennessee River and tributaries below Decatur, Ala.
Charleston, S. C.-----	Rivers of northeastern South Carolina.
Chattanooga, Tenn. ¹ -----	Tennessee River and tributaries from below Knoxville, Tenn., to and including Decatur, Ala.
Cincinnati, Ohio ¹ -----	Ohio River and tributaries, except the Scioto River, from and including Portsmouth, Ohio, to and including the mouth of the Kentucky River.
Columbia, S. C.-----	Santee River and tributaries.
Columbus, Ohio.-----	Sandusky and Scioto Rivers.
Concord, N. H.-----	Merrimack River and tributaries.
Concordia, Kans.-----	Republican River and tributaries.
Dallas, Tex.-----	Trinity River and tributaries above Long Lake, Tex.
Davenport, Iowa ² -----	Mississippi River and tributaries from and including Dam No. 12, and its upstream gage to, but not including Dam No. 18.

Del Rio, Tex.....	The Rio Grande and tributaries from, but not including the Pecos River, to and including Laredo, Tex.
Denver, Colo.....	Colorado River and tributaries to but not including the San Juan River; Arkansas River and tributaries in Colorado.
Des Moines, Iowa.....	Des Moines River and tributaries above Eldon, Iowa.
Dubuque, Iowa ²	Mississippi River and tributaries from and including Dam No. 8, and its upstream gage to, but not including Dam No. 12.
El Paso, Tex.....	The Rio Grande and tributaries from below Elephant Butte Reservoir Dam, N. Mex., to and including the mouth of the Pecos River; the Pecos River in Texas.
Eureka, Calif.....	Eel River.
Evansville, Ind. ¹	Ohio River and tributaries, except the Wabash River, from below Hawesville, Ky., to and including Dam No. 50 at Fords Ferry, Ky.
Fargo, N. Dak.....	Red River of the North and tributaries below the Canadian line.
Fort Smith, Ark.....	Arkansas River and tributaries (except the Neosho River in Kansas, and the Canadian River) from the Kansas-Oklahoma line to and including Van Buren, Ark.
Fort Wayne, Ind.....	Maumee River and tributaries.
Fresno, Calif.....	San Joaquin River and tributaries above the mouth of the Tuolumne River.
Grand Rapids, Mich.....	Grand River and tributaries below Grand Ledge, Mich.
Harrisburg, Pa. ¹	Susquehanna River and tributaries at and below Towanda, Pa.
Hartford, Conn.....	Connecticut River and tributaries.
Houston, Tex. ¹	Sabine, Neches, and Brazos Rivers; Trinity River at and below Long Lake, Tex.
Huntington, W. Va. ¹	Ohio River and tributaries from and including the mouth of the Kanawha River to but not including Portsmouth, Ohio.
Indianapolis, Ind.....	Wabash River and tributaries.
Kansas City, Mo. ¹	Missouri River and tributaries, except the Kansas River at and above Lawrence, Kans., from the mouth of the Platte River to and including Lexington, Mo.
Knoxville, Tenn. ¹	Tennessee River and tributaries at and above Knoxville, Tenn., except French Broad River and tributaries above North Carolina-Tennessee State line.
La Crosse, Wis. ²	Mississippi River and tributaries from and including Dam No. 2, and its upstream gage to, but not including Dam No. 8.
Lansing, Mich.....	Grand River and tributaries at and above Grand Ledge, Mich.; Saginaw River and tributaries.
Little Rock, Ark. ¹	Arkansas River and tributaries below Van Buren, Ark.; White River and tributaries, except the Black River in Missouri; Ouachita River and tributaries in Arkansas.
Louisville, Ky. ¹	Ohio River and tributaries from below the mouth of the Kentucky River to and including Hawesville, Ky.
Lynchburg, Va.....	James River and tributaries above Columbia, Va.
Macon, Ga.....	Altamaha River and tributaries.
Memphis, Tenn. ¹	Mississippi River from below New Madrid, Mo., to the mouth of the White River; St. Francis River and tributaries.
Meridian, Miss.....	Pascagoula and Pearl Rivers and tributaries.
Minneapolis, Minn.....	Mississippi River and tributaries above, but not including Dam No. 2.
Mobile, Ala. ¹	Tombigbee River and tributaries.
Montgomery, Ala.....	Alabama River and tributaries.
Nashville, Tenn. ¹	Cumberland River and tributaries.
New Orleans, La. ¹	Mississippi River below Natchez, Miss.; Red River below Shreveport, La.; Ouachita and Black Rivers and tributaries in Louisiana; Atchafalaya River.
Oklahoma City, Okla.....	Canadian River and tributaries east of the eastern boundary of New Mexico.
Omaha, Nebr.....	Missouri River and tributaries from below Sioux City, Iowa, to and including the mouth of the Platte River.
Parkersburg, W. Va. ¹	Ohio River and tributaries from below Dam No. 13 to and including Point Pleasant, W. Va.
Pensacola, Fla.....	Escambia and Choctawhatchee Rivers and tributaries.
Philadelphia, Pa.....	Schuylkill River and tributaries below and including the mouth of Perkiomen Creek.
Phoenix, Ariz.....	Gila River and tributaries at and above Gila Bend, Ariz., and the Colorado River and tributaries from, but not including, the San Juan to, but not including the mouth of the Virgin River.
Pittsburgh, Pa. ¹	Ohio River and tributaries at and above Dam No. 13.
Portland, Oreg. ¹	Columbia River and tributaries.
Raleigh, N. C.....	The rivers, and their tributaries, that enter the Atlantic Ocean on the North Carolina coast.
Reading, Pa.....	Schuylkill River and tributaries above Perkiomen Creek.
Richmond, Va.....	James River and tributaries at and below Columbia, Va.
Sacramento, Calif.....	Rivers in the central valleys of California, except the San Joaquin River above the mouth of the Tuolumne River.
St. Louis, Mo. ¹	Mississippi River and tributaries from and including Dam No. 24, and its upstream gage to, but not including Cape Girardeau, Mo. (See Topeka and Kansas City districts for limits of Missouri and Osage Rivers.) Black River in Missouri.
San Antonio, Tex.....	Guadalupe, Nueces, and the San Antonio Rivers and tributaries.
Shreveport, La. ¹	Red River and tributaries at and above Shreveport, La.
Sioux City, Iowa.....	Missouri River and tributaries from below Bismarck, N. Dak., to and including Sioux City, Iowa.
Topeka, Kans.....	Kansas River and tributaries at and above Lawrence, Kans., except the Republican River; Neosho and Osage Rivers and tributaries in Kansas.
Trenton, N. J.....	Delaware River and tributaries except the Schuylkill River.
Vicksburg, Miss. ¹	Mississippi River from the mouth of the White River to and including Natchez, Miss.; Yazoo and Big Black Rivers and tributaries.
Washington, D. C.....	Potomac River and tributaries.
Wichita, Kansas.....	Arkansas River and tributaries in Kansas.
Yuma, Ariz.....	Colorado River and tributaries from and including the mouth of the Virgin River, to the Arizona-Mexico border, and the Gila River below Gila Bend, Ariz.

BENNETT SWENSON, *Editor*.

River stations, arranged by drainage areas, and miscellaneous information pertaining thereto—Continued

Station	River	Length of record ¹	Elevation of gage zero above mean sea level ²	Distance of gage above mouth of river ³	Drainage area above gage ⁴	Flood stage	Extreme stages from gage readings ⁵			
							Highest	Date	Lowest	Date
MISSISSIPPI SYSTEM—continued										
Ohio Basin—Continued										
		Years	Feet	Miles	Sq. miles	Feet	Feet		Feet	
Lock No. 5, Schenley, Pa.	Allegheny	69	734.5	30.6	9,329	24	45.7	Mar. 18, 1936	11.0	July 19, 1936
Lock No. 4, Natrona, Pa.	do	15	724.5	24.1	11,403	24	43.6	do	8.0	Feb. 27, 1934
Lock No. 3, Acmetonia, Pa.	do	7	710.0	14.7	11,517	25	45.2	do	11.1	July 17, 1936
Elkins, W. Va.	Tygart	10	1,900.30			14				
Phillippi, W. Va.	do	23	1,380.55	46	916	20	26.7	Oct. 29, 1937	0	Sept. 29, 1936
Weston, W. Va.	West Fork	39	995.60	69	133	15	20.25	Apr. 16, 1939	-7	June 28, 1936
Confluence, Pa.	Youghiogheny	69	1,302.32	67	1,029	12	21.9	Mar. 29, 1924	7	Sept. 6, 1881
Connellsville, Pa.	do	34	860.13			16	20.5	do	1	Sept. 23, 1908
Sutersville, Pa.	do	24	733.14		1,715	20				
Lock No. 15, Houlst, W. Va.	Monongahela	38	838.9	124.2	2,437	22	29.4	Jan. 2, 1919	.7	Dec. 6, 1908
Lock No. 10, Morgantown, W. Va.	do	59	785.65	101.5	2,683	25	39.1	July 10, 1888	-2	Oct. 5, 1873
Lock No. 7, Greensboro, Pa.	do	54	753.0	84.8	4,447	30	40.4	Mar. 18, 1936	6.2	Sept. 15, 1930
Lock No. 4, Charleroi, Pa.	do	56	716.17	41.5	5,223	30	43.53	July 11, 1888	4.73	Nov. 18, 1887
McKeesport, Pa.	do	29	718.25	14.6	7,161	20	28.8	Mar. 18, 1936	.9	Aug. 10, 1930
Sharon, Pa.	Shenango	30	839.82	28.2	576	9	18.6	Mar. 26, 1913	1.7	Sept. 16, 1932
Beaver Falls, Pa.	Beaver	34		4.0	3,086	15	17.4	Mar. 27, 1913	1.9	Aug. 10, 1913
Newcomerstown, Ohio	Tuscarawas	14	780.00	21.1	2,436	10	21.2	Aug. 9, 1935	10.3.8	July 29, 1934
Lock No. 10, Zanesville, Ohio	Muskingum	51	665.3	75.8	6,840	25	51.8	Mar. 27, 1913	4.3	Oct. 14, 1895
Lock No. 7, McConnellsville, Ohio	do	29	635.0	48.2	7,411	22	49.1	do	3.4	Oct. 9, 1916
Lock No. 3, Lowell, Ohio	do	13	588.1	13.9	7,978	25	30.3	Aug. 10, 1935	5.8	Aug. 12, 1930
Lock No. 1, Marietta, Ohio; Upper gage	do	28	575.38	2	8,038	28	47.0	Jan. 26, 1937	7.9	Aug. 19, 1930
Glenville, W. Va.	Little Kanawha	41	697.79	103.0	365	23	33.6	Nov. 16, 1926	-9	Nov. 10, 1908
Creston, W. Va.	do	41	621.71	48.0	1,214	20	33.2	Apr. 17, 1939	-3.0	Nov. 4, 1906
Athens, Ohio	Hocking	26	615.59	31.6	944	17	22.75	Apr. 21, 1940	2.0	Aug. 13, 1941
Camden on Gauley, W. Va.	Gauley	26	2,003.28	71	238	23				
Summersville, W. Va.	do	22		42	664	18	28.75	July 4, 1932	.64	Aug. 10, 1930
Ivanhoe, Va.	New	25	1,941.9	194	1,311	15	32.1	Aug. 14, 1940	.0	Aug. 1, 1917
Radford, Va.	do	46		145	2,761	14	34.1	do	-2.0	Nov. 3, 1901
Glenlyn, Va.	do	16	1,492.0	95	3,859	11	27.6	do	.1	Sept. 29, 1926
Hinton, W. Va.	do	55	1,352.04	63	6,288	14	20.2	Sept. 13, 1878	.7	Sept. 27, 1894
Clay, W. Va.	Elk	27	676.60	53.2	1,016	18	32.4	Mar. 14, 1918	.1	July 27, 1936
Kanawha Falls, W. Va.	Kanawha	28	622.88	95.0	8,415	25	31.7	Aug. 15, 1940	-9	Oct. 29, 1921
London Dam, London, W. Va.	do	8	581.0	82.8	8,552	43				
Charleston, W. Va.	do	69	558.65	58.4	10,495	34	41.6	Sept. 14, 1878	-1	Sept. 15, 1881
Lock No. 6, S. Charleston, W. Va.	do	55	547.90	54.0	10,587	42	48.9	Mar. 5, 1899	1.65	Aug. 26, 1893
Logan, W. Va.	Guyandot	20	639.08	81.4	859	20	27.0	Jan. 28, 1918	.0	Oct. 10, 1923
Wayne, W. Va.	Twelvepole Creek	17	604.74	28.8	305	25	28.3	June 30, 1928	.2	Oct. 5, 1935
Williamson, W. Va.	Tug Fork	35		57.3	941	38	38.1	Jan. 29, 1918	-8	Oct. 2, 1908
Pikeville, Ky.	Lewis Fork	34	634.03	88.5	1,225	35	49.0	Jan. 28, 1918	-5	Oct. 6, 1941
Paintsville, Ky.	do	14	566.67	38.5		40	42.15	Feb. 4, 1939	1.06	July 23, 1930
Lock No. 3, Louisa, Ky.	Big Sandy	53	516.81	26.6	3,821	45	48.0	Mar. 6, 1899	.7	Nov. 18, 1884
Delaware, Ohio	Olentangy	32	848.58	26.2	415	9	25.5	Mar. 25, 1913	-1	Dec. 15, 1934
La Rue, Ohio	Scioto	26	910.19	106.2	255	11	15.0	Mar. 20, 1927	1.9	July 31, 1916
Prospect, Ohio	do	35	891.72	172.2	554	10	15.0	Mar. 22, 1927	.2	Oct. 2, 1910
Columbus, Ohio	do	44	700.03	131.9	1,613	22	22.9	Mar. 25, 1913	-8	July 27, 1923
Circleville, Ohio	do	30	643.03	100.4	3,217	14	28.2	Mar. 20, 1913	1.8	Aug. 17, 1925
Chillicothe, Ohio	do	34	594.02	70.4	3,847	16	39.8	do	1.0	Sept. 27, 1916
Kings Mills, Ohio	Little Miami	17	587.10	28.1	1,048	17	37.7	do	.5	July 3, 1914
Cynthiana, Ky.	South Fork	25		46	641	20	22.0	Dec. 24, 1921	.5	June 15, 1936
Farmers, Ky.	Licking	25	646.44	172	782	25	31.1	Feb. 9, 1918	1.1	July 11, 1936
Falmouth, Ky.	do	55	511.38	51.2	2,267	28	41.4	Jan. 23, 1937	-1	Sept. 6, 1930
Pleasant Hill, Ohio	Stillwater	26	846.00	29.2	502	13	17.5	Jan. 15, 1937	.0	July 26, 1941
Springfield, Ohio	Mad	28	881.95	23.6	477	11	15.1	do	1.3	Aug. 6, 1941
Brookville, Ind.	Whitewater	24	595.73	27	1,230	20	25.50	Feb. 20, 1929	.1	Sept. 25, 1941
Sidney, Ohio	Miami	23	924.74	134.8	545	12	14.2	Mar. 21, 1927	-2	Sept. 23, 1940
Piqua, Ohio	do	31	844.00	122.1	850	17	29.1	Mar. 25, 1913	.7	Sept. 17, 1941
Tipp City, Ohio	do	19	786.77	104.5	955	27	13.8	Mar. 21, 1927	.4	Oct. 3, 1941
Dayton, Ohio	do	49	721.01	84.5	2,515	21	21.7	Mar. 25, 1913	-1	Sept. 28, 1941
Miamisburg, Ohio	do	19	678.44	68.6	2,719	22	20.6	Jan. 22, 1937	-3	Oct. 17, 1929
Franklin, Ohio	do	19	658.41	61.3	2,731	16	16.7	do	.0	Sept. 29, 1941
Middletown, Ohio	do	19	621.00	52.3	3,158	15	19.0	Feb. 27, 1929	.0	Oct. 8, 1924
Hamilton, Ohio	do	32	560.00	35.3	3,637	17	43.1	Mar. 26, 1913	-1.7	Oct. 21, 1932
Hazard, Ky.	North Fork	17	837.57	96.0	442	20	33.8	May 30, 1927	-4	Aug. 1, 1925
Jackson, Ky.	do	36	697.67			29	43.1	Feb. 4, 1939	.7	Sept. 23-24, 1940
Lock No. 14, Heidelberg, Ky.	Kentucky	25	627.2	249.3	2,639	30	35.6	do	4.8	Nov. 10, 1930
Lock No. 10, Ford, Ky.	do	30	556.8	176.3	3,948	30	35.1	Mar. 29, 1913	9.0	Oct. 4, 1939
Lock No. 7, Highbridge, Ky.	do	41	503.66	117.0	5,024	30	42.2	Jan. 23, 1937	4.7	Nov. 24, 1912
Lock No. 4, Frankfort, Ky.	do	56	402.17	65.0	5,396	31	47.50	Jan. 25, 1937	3.2	Nov. 1, 1908
Bowling Green, Ky.	Barren	18	409.83	37.6	1,870	28	40.7	Jan. 23, 1937	11.0	Oct. 18, 1923
Munfordville, Ky.	Green	17	452.20	219	1,707	28	44.5	Dec. 18, 1915	1.7	Oct. 4, 1928
Lock No. 6, Brownsville, Ky.	do	25	403.26	180.6	2,751	28	54.7	Jan. 24, 1937	6.1	Sept. 10, 1919
Lock No. 4, Woodbury, Ky.	do	43	373.80	149.5	5,446	33	59.0	do	5.0	Sept. 17, 1902
Lock No. 2, Rumsey, Ky.	do	43	343.04	62.8	7,681	34	54.42	Jan. 31, 1937	3.7	July 28, 1902
Anderson, Ind.	West Fork	31		242.6	428	10	22.9	Mar. 25, 1913	3.8	June 19, 1918
Noblesville, Ind.	do	28		215.1	944	14	18.8	Jan. 16, 1937	3.0	Aug. 29, 1914
Indianapolis, Ind.	do	31	672.92	185.3	1,590	18	29.5	Mar. 26, 1913	2.0	Sept. 17, 1941
Elliston, Ind.	do	34	472.94	78.2	4,470	18	31.3	Mar. 27, 1913	5.5	Jan. 11, 1909
Edwardsport, Ind.	do	19		32.6	4,995	12	20.8	Jan. 18, 1937	2.2	Jan. 1, 1931
Seymour, Ind.	East Fork	19	550.7	167.6	2,292	14	19.5	Jan. 16, 1937	.3	Aug. 22, 1936
Williams, Ind.	do	21	472.56	79.2	4,584	10	25.0	Jan. 25, 1937	-2.0	Jan. 1, 1931
Shoals, Ind.	do	34	442.21	56.0	4,828	25	42.2	Mar. 28, 1913	1.2	Aug. 24, 1936
Petersburg, Ind.	White	7	400.00	47.8	11,100	16	28.1	Jan. 21, 1937	.0	Aug. 26, 1936
Hasleton, Ind.	do	18	383.26	18.9	11,200	16	31.6	Jan. 22, 1937	.5	Sept. 30, 1941
Bluffton, Ind.	Wabash	31		421.8	555	10	20.0	Mar. 26, 1913	.2	July 26, 1934
Wabash, Ind.	do	19			1,740	12				
Logansport, Ind.	do	24			3,860	17	25.3	Mar. 26, 1913	2.2	Dec. 4, 1914
La Fayette, Ind.	do	28	504.14	301.4	7,324	11	25.5	Feb. 27, 1936	.5	July 26, 1936
Covington, Ind.	do	15	473.97	260.5	8,399	16	28.8	Feb. 29, 1936	1.2	Oct. 5, 1928
Terre Haute, Ind.	do	43	445.78	204.4	12,333	14	31.3	Mar. 27, 1913	-2.0	Feb. 6, 1892
Vincennes, Ind.	do	25	396.43	117.2	13,840	14	25.2	Jan. 17, 1930	-8	June 22, 1934
Mount Carmel, Ill.	do	58	371.46	83.9	28,506	17	31.0	Mar. 30, 1913	-2	Oct. 9, 1940
New Harmony, Ind.	do	8	353.20	44.0		15	24.4	Jan. 30, 1937	-2	Sept. 30, 1941
New River, Tenn.	New	34	1,092.67	8.0	383	18				

See footnotes at end of table.

(Omission of page number under "page readings" indicates the record is short and broken, and is not published. A copy of the available readings may be obtained by application to the Chief of the Weather Bureau.)

Station	River	Miscellaneous data	Gage readings	Station	River	Miscellaneous data	Gage readings
		Page	Page			Page	Page
Swan Lake, Miss.	Tallahatchie	8	248	Washington (near), D. C.	Potomac	3	46
Tarboro, N. C.	Tar	3	52	Washington, Tex.	Brazos	9	243
Terre Haute, Ind.	Wabash	6	179	Waterloo, Oreg.	South Santiam	9	
The Dalles, Oreg.	Columbia	10		Waverly, Mo.	Missouri	5	133
Three Rivers, Tex.	Neuces	9	270	Wayne, W. Va.	Twelvepole Creek	6	136
Tiffin, Ohio	Sandusky	3	25	Webbers Falls, Okla.	Arkansas	8	234
Tipp City, Ohio	Miami	6	164	Weiser, Idaho	Snake	9	238
Topeka, Kans.	Kansas	5	124	Weldon, N. C.	Roanoke	3	50
Towanda, Pa.	Susquehanna	3	42	West Hartford, Vt.	White	3	28
Tracy, Iowa	Des Moines	5	103	Weston, W. Va.	Monongahela—West Fork	6	112
Trenton, Mo.	Thompson Fork	5	125	West Point, Ga.	Chattahoochee	4	73
Trenton, N. J.	Delaware	3	36	Wetumpka, Ala.	Coosa	4	53
Tribes Hill, N. Y.	Mohawk	3	32	Wharton, Tex.	Colorado	9	258
Trinidad, Tex.	Trinity	9	261	Wheeling, W. Va.	Ohio	7	108-190
Trinidad, Wash.	Columbia	10	293	White Bird, Idaho	Salmon	9	
Tulsa, Okla.	Arkansas	8	233	Whitecliffs, Ark.	Little	8	240
Tuscaloosa, Ala.	Black Warrior	4	86	White River Junction, Vt.	Connecticut	3	29
Umatilla, Oreg.	Columbia	10	294	Whitney Point, N. Y.	Tloughnioga	3	30
Union, Mo.	Bourbeuse	5	107	Wichita, Kans.	Arkansas	8	232
Uniontown, Ky.	Ohio	7	214-215	Widows Bar Lock, Ala.	Tennessee	7	
Upper Sandusky, Ohio	Sandusky	3	25	Wilkes-Barre, Pa.	Susquehanna	3	41
Valley Junction, Tex.	Brazos	9	265	Williamina, Oreg.	South Yamhill	9	
Valley Park, Mo.	Meramec	5	108	Williams, Ind.	White—East Fork	6	173
Van Buren, Ark.	Arkansas	8	234	Williamsburg, Ky.	Cumberland	7	182
Vanceburg, Ky.	Ohio	7		Williamson, W. Va.	Tug Fork	6	186
Vancouver, Wash.	Columbia	10	295	Williamsport, Pa.	Susquehanna—West Branch	3	40
Van Meter, Iowa	Raccoon	5	102	Williamston, N. C.	Roanoke	3	51
Vicksburg, Miss.	Mississippi	8	252	Williston, N. Dak.	Missouri	5	130
Victoria, Tex.	Guadalupe	9	269	Winona, Minn.	Mississippi	5	111
Vincennes, Ind.	Wabash	6	179	Wisconsin Dells, Wis.	Wisconsin	5	99
Wabash, Ind.	do	6	177	Wisconsin Rapids, Wis.	do	5	98
Waco, Tex.	Brazos	9	264	Woodbury, Ky.	Green	6	172
Wahpeton, N. Dak.	Red of North	3	20	Woodward, Okla.	North Canadian	8	228
Walpole, N. H.	Connecticut	3	30	Wyandotte, Okla.	Neosho	8	
Wamego, Kans.	Kansas	5	124	Yankton, S. Dak.	Missouri	5	132
Wapello, Iowa	Iowa	5	101	Yazoo City, Miss.	Yazoo	8	249
Warren, Pa.	Allegheny	5	138	Yukon, Okla.	North Canadian	8	230
Warsaw, Mo.	Osage	5	128	Yuma, Ariz.	Colorado	9	279
Washburn, N. Dak.	Missouri	5		Zanesville, Ohio	Muskingum	6	148
Washington, D. C.	Potomac	3					

MISSISSIPPI SYSTEM—OHIO BASIN—Continued

1940	January	February	March	April	May	June	July	August	September	October	November	December	1941	January	February	March	April	May	June	July	August	September	October	November	December
WABASH RIVER AT TERRE HAUTE, IND.																									
Wabash—Ohio																									
[Elevation of gage zero, 445.78 feet, m. s. l. Flood stage, 14 feet]																									
1	^b 0.3	^c 1.3	^d 4.1	2.7	6.3	3.8	2.0	0.5	0.9	0.1	0.6	0.8	1	1.5	1.1	^b 1.3	1.3	1.8	1.0	1.9	0.3	0.0	-0.3	1.8	2.6
2	^c 0.3	^c 1.2	4.1	2.5	11.2	4.1	1.7	0.7	0.4	0.1	1.0	0.7	2	1.6	1.1	^b 1.5	1.3	1.6	1.3	2.4	0.2	0.3	-0.2	3.3	2.4
3	^b 0.4	^c 1.2	4.7	2.7	12.5	4.0	2.7	0.6	0.4	0.1	1.0	0.7	3	1.6	1.2	1.0	1.4	1.6	2.8	2.8	0.1	0.0	-0.1	4.5	2.3
4	^b 0.4	^c 1.2	9.1	2.7	12.9	4.1	2.3	0.6	0.6	0.1	1.5	0.2	4	1.6	1.2	1.0	1.7	1.6	5.8	2.4	0.1	0.0	0.0	4.4	2.2
5	^b 0.4	^b 1.0	12.0	2.9	12.0	4.0	1.9	0.4	0.3	0.1	0.6	0.2	5	1.6	1.2	0.7	3.4	1.8	4.0	4.0	0.1	0.2	0.1	3.7	2.0
6	^b 0.4	^b 1.0	12.9	3.1	10.3	3.8	1.7	0.4	0.2	0.1	0.6	0.5	6	^b 1.6	1.2	0.5	5.5	1.8	2.7	3.8	0.1	0.1	1.4	2.5	1.9
7	^b 0.4	^b 1.0	13.1	3.3	9.0	3.5	1.6	0.4	0.2	0.1	0.6	0.5	7	^b 0.9	1.3	0.9	5.6	1.5	2.4	2.8	0.1	0.1	1.6	4.3	1.8
8	^b 0.4	^b 1.0	13.1	3.4	7.9	3.5	1.5	0.3	0.2	0.1	0.6	0.5	8	^b 1.0	0.8	1.0	5.6	2.2	2.2	2.0	0.1	0.8	1.9	6.8	1.8
9	^b 0.4	^b 1.0	11.4	3.5	6.5	4.2	1.3	0.3	0.2	0.4	0.6	0.5	9	^b 0.9	0.8	1.0	5.5	2.7	2.7	1.7	0.1	0.4	2.5	7.2	1.7
10	^b 0.4	^b 1.4	8.1	4.6	5.6	6.5	1.2	0.3	0.6	0.8	0.4	0.7	10	^b 1.3	^b 0.6	1.0	4.9	2.7	^b 5.6	1.3	0.1	0.3	^b 3.3	6.7	1.6
11	^b 0.5	^b 2.1	6.1	7.0	4.9	5.4	1.2	0.3	0.7	0.8	0.6	0.6	11	1.6	^b 0.7	1.0	4.7	2.7	4.7	1.2	0.1	0.3	3.5	5.3	1.5
12	^b 0.6	^b 2.0	5.2	7.7	4.4	5.8	1.2	0.3	0.7	0.5	0.6	0.6	12	1.3	1.3	0.9	4.5	2.5	^b 7.1	1.2	0.1	0.2	2.8	4.6	1.4
13	^b 0.6	^b 1.9	4.5	7.2	4.0	9.3	1.3	0.3	0.5	0.4	1.0	0.8	13	1.3	1.6	0.9	4.0	1.9	8.5	1.2	0.0	0.0	2.1	3.8	1.4
14	^b 0.9	^b 2.0	4.1	6.8	3.8	10.3	1.3	0.2	0.4	0.3	0.9	0.9	14	1.3	1.8	1.2	3.3	1.9	7.4	0.8	0.0	0.0	1.5	3.2	1.3
15	^b 1.2	^b 2.3	3.8	7.7	3.6	9.4	1.0	0.2	0.4	0.4	0.9	0.9	15	1.2	1.6	1.3	2.8	1.8	7.9	0.8	0.0	0.0	1.2	2.9	1.3
16	^b 1.7	^b 2.7	3.5	8.2	3.2	6.0	1.0	0.2	0.2	0.8	0.8	1.1	16	1.2	1.6	1.5	2.6	1.7	^b 8.9	0.8	0.0	0.0	1.0	2.9	1.3
17	^b 1.8	^b 3.0	3.5	8.1	3.1	5.1	1.0	0.2	0.2	0.9	0.8	1.4	17	1.1	2.4	1.7	2.6	1.7	7.8	0.8	0.0	0.0	0.8	2.4	1.3
18	^b 2.6	^b 3.1	3.3	10.3	3.1	4.2	0.9	0.2	0.1	1.0	0.7	2.5	18	1.0	2.5	1.5	2.8	1.7	7.8	0.8	0.0	0.0	0.8	1.9	1.3
19	^c 3.0	^c 3.2	3.1	11.7	3.0	3.6	0.9	0.3	0.1	0.6	0.6	2.6	19	1.0	2.4	1.5	3.2	1.7	6.6	0.7	0.0	0.0	3.0	1.8	1.3
20	^c 4.0	^b 3.3	2.9	11.7	4.0	3.2	0.8	0.4	0.1	0.5	0.6	2.9	20	1.1	^b 0.9	1.6	3.0	1.4	4.2	0.5	0.0	0.2	3.4	3.6	1.3
21	^c 3.2	3.3	2.8	11.9	3.9	3.6	0.9	0.4	0.1	0.4	0.5	2.6	21	1.1	^b 0.7	1.4	3.3	1.4	4.2	0.5	0.0	0.2	3.4	3.6	1.3
22	^c 2.9	3.7	2.8	11.5	3.9	3.7	0.8	0.4	0.1	0.3	0.5	2.3	22	1.3	^b 0.5	1.6	4.6	1.6	3.6	0.5	0.0	0.2	2.6	3.0	1.3
23	^c 2.7	^b 3.8	2.8	11.1	3.7	3.1	0.7	0.3	0.0	0.3	0.6	2.2	23	1.5	^b 1.5	1.4	4.7	1.5	3.6	0.5	0.0	0.2	1.9	2.7	1.5
24	^b 2.0	^d 4.1	2.7	11.1	3.4	2.6	0.7	0.3	0.0	0.2	0.8	1.7	24	1.5	^b 1.8	1.4	3.8	1.0	3.0	0.6	0.0	0.3	1.9	2.8	2.8
25	^b 2.0	^b 4.0	2.7	10.8	3.1	2.4	0.6	0.3	0.0	0.2	0.4	1.5	25	1.8	^b 1.6	1.4	3.2	1.2	2.3	0.7	0.0	0.3	1.0	2.6	3.1
26	^b 2.0	^b 3.3	2.3	9.3	3.1	2.5	0.6	0.3	0.0	0.2	0.5	1.3	26	1.4	^b 1.6	1.4	2.8	1.2	2.1	0.7	0.2	0.3	1.0	2.7	3.4
27	^b 1.8	^b 3.0	2.2	7.2	3.1	2.4	0.6	0.3	0.0	0.2	0.9	1.2	27	1.3	^b 1.5	1.1	2.4	0.8	2.0	0.8	0.2	0.3	1.4	2.6	3.4
28	^b 1.8	^b 2.5	2.2	7.2	3.0	2.4	0.6	0.4	0.0	0.5	1.2	1.2	28	1.3	^b 1.3	1.2	2.2	0.6	1.8	0.6	0.1	0.3	1.0	2.6	3.6
29	^b 1.5	^b 3.0	2.2	4.8	3.2	2.1	0.5	0.4	0.0	0.1	1.4	1.1	29	1.3	-----	1.2	2.0	0.4	1.6	0.5	0.0	0.3	1.4	2.8	3.6
30	^b 1.5	-----	2.1	4.3	3.2	2.0	0.5	0.4	0.1	1.0	1.0	1.6	30	1.2	-----	1.1	1.9	0.7	1.6	0.5	0.0	0.3	1.0	2.8	3.3
31	^c 1.3	-----	2.3	-----	3.3	-----	0.5	0.7	-----	0.6	-----	1.6	31	1.1	-----	1.1	-----	0.8	-----	0.3	0.0	0.0	1.0	-----	3.0
M'n	1.1	2.5	5.2	6.9	5.4	4.4	1.1	0.4	0.3	0.5	0.7	1.2	M'n	1.3	1.4	1.2	3.4	1.6	4.3	1.3	0.1	0.0	1.4	3.5	2.1

WABASH RIVER AT VINCENNES, IND.

Wabash—Ohio

[Elevation of gage zero, 396.43 feet, m. s. l. Flood stage, 14 feet]

1	0.2	(*)	2.0	1.9	5.0	2.7	1.4	0.2	0.3	-0.1	0.3	0.7	1	1.0	0.8	0.9	0.7	1.6	0.4	1.4	0.3	-0.2	-0.4	1.3	2.2
2	0.2	(*)	2.6	1.7	8.4	2.9	1.4	0.1	0.3	-0.2	0.3	0.6	2	0.9	0.8	0.9	0.7	1.5	0.5	1.6	0.3	-0.2	-0.3	2.6	2.2
3	0.2	(*)	3.3	1.8	10.1	3.2	1.8	0.2	0.3	-0.2	0.2	0.5	3	1.0	0.8	0.9	0.8	1.4	0.9	1.5	0.2	1.0	-0.3	2.6	2.0
4	0.2	(*)	3.7	2.1	10.7	3.3	2.0	0.2	0.2	-0.2	0.2	0.3	4	1.1	0.8	0.8	0.9	1.3	1.6	1.8	0.2	0.9	-0.3	3.4	1.9
5	0.2	(*)	5.5	2.1	10.9	3.3	1.9	0.2	0.1	-0.2	0.3	0.2	5	1.0	0.8	0.8	1.1	1.2	3.7	1.9	0.1	0.3	-0.2	3.4	1.8
6	0.2	1.3	7.6	2.1	10.9	3.3	1.6	0.1	0.1	-0.2	0.3	0.1	6	1.0	0.8	0.7	2.0	1.2	3.6	2.4	0.0	0.1	0.1	3.2	1.8
7	0.2	1.4	8.6	2.3	10.4	3.1	1.4	0.1	0.1	-0.2	0.2	0.1	7	0.9	0.8	0.8	3.6	1.3	2.5	2.9	-0.1	0.2	0.2	3.7	1.6
8	0.2	1.3	9.1	2.6	9.4	3.0	1.2	0.1	0.0	-0.2	0.2	0.2	8	0.6	1.0	0.8	4.1	1.3	2.1	2.5	-0.2	0.2	1.1	5.2	1.6
9	0.2	1.4	9.4	2.7	7.7	3.3	1.1	0.1	0.1	-0.1	0.2	0.3	9	0.5	0.8	0.8	4.0	1.4	1.8	1.8	-0.2	0.7	1.2	5.5	1.4
10	0.2	1.6	9.1	2.7	6.2	3.9	1.0	0.1	0.2	0.1	0.2	0.2	10	0.6	0.7	0.7	3.9	1.8	2.4	1.4	-0.2	0.4	1.4	5.9	1.3
11	0.2	1.9	7.5	2.9	5.4	5.0	0.9	0.1	0.2	0.3	0.2	0.3	11	0.6	0.5	0.8	4.2	2.2	4.9	1.2	-0.2	0.3	2.0	5.8	1.3
12	0.2	2.0	5.6	5.0	4.5	4.7	0.8	0.1	0.3	0.3	0.3	0.4	12	1.0	0.4	0.7	4.1	1.9	5.5	1.1	-0.2	0.2	2.4	5.0	1.3
13	0.2	2.0	4.5	6.1	4.1	5.1	1.0	0.1	0.3	0.3	0.2	0.5	13	0.9	0.7	0.7	3.7	1.8	6.1	1.0	-0.2	0.1	2.1	4.1	1.3
14	0.5	2.0	3.9	6.3	3.7	6.3	1.1	0.1	0.2	0.2	0.3	0.5	14	0.9	1.1	0.8	3.3	1.6	6.9	0.9	0.1	0.0	1.8	3.4	1.3
15	1.0	1.9	3.7	5.6	3.4	7.5	0.9	0.1	0.2	0.1	0.4	0.6	15	1.0	1.2	0.8	2.9	1.6	6.0	0.8	0.0	0.1	1.4	2.9	1.3
16	0.9	1.8	3.2	5.7	3.3	7.6	0.7	0.1	0.1	0.1	0.4	0.7	16	1.0	1.3	0.9	2.5	1.4	5.8	0.7	-0.1	0.2	1.1	2.5	1.1
17	1.0	2.0	2.8	6.1	3.1	6.6	0.7	0.0	0.1	0.3	0.4	0.8	17	0.9	1.6	1.1	2.3	1.4	0.5	0.7	-0.2	0.3	0.8	2.2	1.1
18	1.2	2.1	2.7	7.8	2.9	5.0	0.7	0.0	0.1	0.3	0.4	1.1	18	0.8	1.6	1.1	2.4	1.4	0.6	0.7	-0.2	0.3	0.6	2.0	1.1
19	1.4	2.6	2.7	9.5	2.8	4.3	0.6	0.0	0.0	0.4	0.3	1.3	19	0.8	1.7	1.0	2.6	1.3	6.1	0.7	-0.2	0.3	0.5	1.8	1.0
20	2.9	2.6	2.6	11.7	3.1	3.4	0.6	0.1	0.0	0.3	0.3	1.6	20	0.7	1.4	1.0	2.6	1.3	5.3	0.5	-0.1	0.3	0.5	1.7	0.9
21	2.6	2.6	2.4	12.2	3.5	3.0	0.5	0.1	0.0	0.3	0.2	1.9	21	0.6	1.0	1.0	2.5	1.3	4.4	0.5	-0.2	0.3	1.4	2.0	0.9
22	2.8	2.5	2.3	11.7	3.4	2.9	0.4	0.1	-0.1	0.3	0.2	1.9	22	0.6	0.7	0.9	2.6	1.2	3.8	0.6	-0.3	0.3	2.2	3.0	0.9
23	2.8	2.5	2.2	11.1	3.2	2.9	0.4	0.0	-0.1	0.2	0.2	1.7	23	0.8	0.6	1.0	3.1	1.2	3.3	0.5	-0.3	0.3	2.1	2.9	1.1
24	2.9	2.6	2.2	10.5	3.1	2.8	0.4	0.0	-0.1	0.1	0.2	1.6	24	1.0	0.8	1.1	3.4	1.1	2.7	0.5	-0.3	0.3	1.7	2.9	3.6
25	(*)	2.9	2.1	9.8	3.0	2.5	0.3	0.0	-0.1	0.1	0.2	1.5	25	1.1	1.0	1.0	3.2	1.0	2.4	0.5	0.0	0.3	1.4	3.0	3.6
26	(*)	2.8	2.0	9.4	2.8	2.5	0.3	0.0	-0.1	0.1	0.2	1.3	26	1.2	1.1	0.8	2.9	0.9	2.1	0.5	0.1	0.3	1.0	2.7	3.4
27	(*)	2.7	1.8	8.5	2.7	1.9	0.3	0.0	0.0	0.0	0.3	1.1	27	1.0	1.1	0.8	2.4	0.8	1.8	0.5	0.0	0.3	0.9	2.4	3.3
28	(*)	2.5	1.7	7.0	2.6	2.0	0.3	0.2	0.0	-0.2	0.4	1.1	28	1.0	1.1	0.8	2.0	0.7	1.7	0.5	0.2	0.3	0.8	2.3	3.2
29	(*)	2.2	1.6	5.0	2.5	1.8	0.2	0.3	-0.1	0.4	0.6	0.9	29	0.9	0.8	0.7	1.8	0.6	1.6	0.5	0.1	0.3	0.8	2.2	3.0
30	(*)	1.6	4.8	2.5	1.7	2.2	0.3	-0.1	0.3	-0.1	0.6	0.8	30	0.8	0.7	0.7	1.7	0.4	1.4	0.5	0.0	-0.4	0.7	2.2	2.9
31	(*)	1.7	2.6	2.6	2.2	2.3	0.2	0.3	0.2	0.4	0.7	1.1	31	0.7	0.7	0.7	0.4	0.4	0.4	0.4	-0.1	0.0	0.9	2.7	2.7
M'n	2.2	3.9	6.0	5.1	3.7	0.8	0.1	0.1	0.1	0.3	0.8	M'n	0.9	1.0	0.9	2.6	1.3	3.5	1.1	0.0	0.0	1.0	3.1	1.9	

W. B. No. 1434

UNITED STATES DEPARTMENT OF COMMERCE

JESSE H. JONES, *Secretary*

WEATHER BUREAU

F. W. REICHELDERFER, *Chief*

DAILY RIVER STAGES

AT RIVER GAGE STATIONS ON THE
PRINCIPAL RIVERS OF THE
UNITED STATES

REFERENCE
DO NOT CIRCULATE

Volume XXXIX
1942-1943

Community Affairs File

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INTRODUCTION

This volume, containing the daily river stages for 1942 and 1943, is the thirty-ninth of a series of Daily River Stages on the Principal Rivers of the United States, the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

- Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.
- II. Stages of the Mississippi River and of its Principal Tributaries, except the Ohio River, 1860 to 1889.
- III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.

DAILY RIVER STAGES AT RIVER GAGE STATIONS ON THE PRINCIPAL RIVERS OF THE UNITED STATES

Volume IV. 1890 to 1892.	Volume XIII. 1915.	Volume XXII. 1924.	Volume XXXI. 1933.
V. 1893 to 1895.	XIV. 1916.	XXIII. 1925.	XXXII. 1934.
VI. 1896 to 1899.	XV. 1917.	XXIV. 1926.	XXXIII. 1935.
VII. 1900 to 1904.	XVI. 1918.	XXV. 1927.	XXXIV. 1936.
VIII. 1905 and 1906.	XVII. 1919.	XXVI. 1928.	XXXV. 1937.
IX. 1907 and 1908.	XVIII. 1920.	XXVII. 1929.	XXXVI. 1938.
X. 1909 and 1910.	XIX. 1921.	XXVIII. 1930.	XXXVII. 1939.
XI. 1911 and 1912.	XX. 1922.	XXIX. 1931.	XXXVIII. 1940 and 1941.
XII. 1913 and 1914.	XXI. 1923.	XXX. 1932.	

Volumes XVIII to XXIV, XXVI to XXVIII, and XXXIII to XXXIX can be bought from the Superintendent of Documents, Washington, D. C.; other volumes are out of print and cannot be supplied.

The river stages are the vertical distances, in feet and tenths, of the water surface above or below the zero of the gage. The zero has, as a rule, been set at or near the lowest known water.

Gage readings are usually made at 8 a.m., seventy-fifth meridian time, east of the Continental Divide, and at 7 a.m., local time, west of the divide.

Extreme stages for a month, or important crest stages, not observed at the regular time for reading the gage, are printed as a note at the foot of the table or page. This practice was begun in 1907.

In some cases the zero planes of gages have been changed, either through accident or through necessary removals. The stations at which changes have occurred are given in a table headed "Corrigenda," and the corrections required to reduce previous readings to the zero now in use are also given in the table if they have not been previously published.

The country is divided into districts, and each district has a designated center at which the administrative and forecasting work is carried on. The following table shows the centers and their districts. Superior figure ⁽¹⁾ opposite a center indicates that stage forecasts are made daily throughout the year, and ⁽²⁾ indicates that stage forecasts are made daily during seasons of navigation and in times of flood. At those centers not bearing a reference, forecasts are made only during times of flood.

ADMINISTRATIVE AND FORECASTING CENTERS AND THEIR DISTRICTS

Allentown, Pa.....	Lackawaxen River and the Lehigh River above, but not including, Easton, Pa.
Albany, N. Y.....	Hudson River and tributaries.
Albuquerque, N. Mex.....	Pecos River in New Mexico; Rio Grande and tributaries at and above Elephant Butte Reservoir Dam, N. Mex.; Canadian River and tributaries in New Mexico; and the San Juan River and tributaries.
Asheville, N. C.....	French Broad River and tributaries above North Carolina-Tennessee State line.
Atlanta, Ga.....	Apalachicola, Altamaha, St. Marys and Satilla Rivers and tributaries.
Augusta, Ga.....	Savannah and Ogeechee Rivers and tributaries.
Austin, Tex.....	Colorado River (of Texas) and tributaries.
Billings, Mont.....	Yellowstone River and tributaries.
Binghamton, N. Y.....	Susquehanna River and tributaries above Towanda, Pa.
Bismarck, N. Dak.....	Missouri River and tributaries, from and including Fort Peck Dam, to and including Bismarck, N. Dak., except the Milk and Yellowstone.
Boise, Idaho.....	SNAKE River and tributaries, above and including Lewiston, Idaho.
Brownsville, Tex.....	Rio Grande below Laredo, Tex.
Burbank, Calif.....	California Coast drainage south of Point Buchon; the Salton Sea basin; Great Basin in California, south of and including Mono Lake drainage.
Burlington, Iowa.....	Mississippi River and tributaries, except the Des Moines above Eldon, Iowa, from and including Dam No. 18, and its upstream gage to, but not including Dam No. 24.
Cairo, Ill. ¹	Ohio River below Dam No. 50 at Fords Ferry, Ky.; Mississippi River from and including Cape Girardeau, Mo., to and including New Madrid, Mo.; Tennessee River and tributaries below Decatur, Ala.

- Charleston, S. C.....Rivers of northeastern South Carolina.
 Chattanooga, Tenn.Tennessee River and tributaries from below Knoxville, Tenn., to and including Decatur, Ala.
 Cincinnati, Ohio¹.....Ohio River and tributaries, except the Scioto River, from below Dam No. 30, to and including the mouth of the Kentucky River.
 Columbia, S. C.....Santee River and tributaries.
 Columbus, Ohio.....Sandusky and Scioto Rivers.
 Concord, N. H.....Merrimack River and tributaries.
 Dallas, Tex.....Trinity River and tributaries above Long Lake, Tex.
 Davenport, Iowa².....Mississippi River and tributaries from and including Dam No. 12, and its upstream gage to, but not including No. 18.
 Del Rio, Tex.....The Rio Grande and tributaries from, but not including the Pecos River, to and including Laredo, Tex.
 Denver, Colo.....North Platte and South Platte Rivers and tributaries, at and above North Platte, Nebr.
 Des Moines, Iowa.....Des Moines River and tributaries above Eldon, Iowa.
 Dubuque, Iowa².....Mississippi River and tributaries from and including Dam No. 8, and its upstream gage to, but not including No. 12.
 Elkins, W. Va.....Tygart River and tributaries at and above the Tygart River Dam, W. Va.
 El Paso, Tex.....The Rio Grande and tributaries from below Elephant Butte Reservoir Dam, N. Mex., to and including the mouth of the Pecos River; the Pecos River in Texas.
 Eureka, Calif.....California Coast drainage from Point Delgada northward to, but not including the Klamath River.
 Evansville, Ind.¹.....Ohio River and tributaries, except the Wabash River, from below Hawesville, Ky., to and including Dam No. 60, Fords Ferry, Ky.
 Fargo, N. Dak.....Red River of the North and tributaries below the Canadian line.
 Fort Wayne, Ind.....Maumee River and tributaries.
 Fresno, Calif.....San Joaquin River and tributaries above the mouth of the Tuolumne River.
 Grand Junction, Colo.....Colorado River and tributaries above, but not including, the mouth of the San Juan.
 Grand Rapids, Mich.....Grand River and tributaries below Grand Ledge, Mich.
 Harrisburg, Pa.¹.....Susquehanna River and tributaries at and below Towanda, Pa.
 Hartford, Conn.....Connecticut River and tributaries.
 Helena, Mont.....Missouri River and tributaries, above Fort Peck Dam; Milk River.
 Houston, Tex.¹.....Neches and Brazos Rivers; Trinity River at and below Long Lake, Tex.
 Huntington, W. Va.¹.....Ohio River and tributaries from below Dam No. 23 to and including Dam No. 30, Greenup, Ky.
 Indianapolis, Ind.....Wabash River and tributaries.
 Kansas City, Mo.¹.....Missouri River and tributaries, except the Kansas River at and above Lawrence, Kans., from, but not including Nebraska City, Nebr., to and including Hermann, Mo.
 Knoxville, Tenn.¹.....Tennessee River and tributaries at and above Knoxville, Tenn., except French Broad River and tributaries to North Carolina-Tennessee State line.
 La Crosse, Wis.².....Mississippi River and tributaries from and including Dam No. 2, and its upstream gage to, but not including No. 8.
 Lake Charles, La.....Sabine, Calcasieu, Mermentau, and Vermillion Rivers.
 Lansing, Mich.....Grand River and tributaries at and above Grand Ledge, Mich.; Saginaw River and tributaries.
 Little Rock, Ark.¹.....Arkansas River and tributaries below Van Buren, Ark.; White River and tributaries; Ouachita River and tributaries in Arkansas.
 Louisville, Ky.¹.....Ohio River and tributaries from below the mouth of the Kentucky to and including Hawesville, Ky.
 Lynchburg, Va.....James River and tributaries above Columbia, Va.
 Medford, Oreg.....Oregon and California Coast drainage, from and including Umpqua River basin, southward to and including Klamath River and tributaries; the Great Basin in Oregon, except the Quinn River.
 Memphis, Tenn.¹.....Mississippi River from below New Madrid, Mo., to the mouth of the White River; St. Francis River and tributaries.
 Meridian, Miss.....Pascagoula and Pearl Rivers and tributaries.
 Minneapolis, Minn.....Mississippi River and tributaries above, but not including Dam No. 2.
 Mobile, Ala.¹.....Tombigbee River and tributaries.
 Montgomery, Ala.....Alabama River and tributaries.
 Nashville, Tenn.¹.....Cumberland River and tributaries.
 New Orleans, La.¹.....Mississippi River below Natchez, Miss.; Red River below Alexandria, La.; Ouachita and Black Rivers and tributaries in Louisiana; Atchafalaya River.
 Oklahoma City, Okla.....Canadian River and tributaries east of the eastern boundary of New Mexico.
 Omaha, Nebr.....Missouri River and tributaries, except North and South Platte Rivers at and above North Platte, Nebr., from below Sioux City, Iowa, to and including Nebraska City, Nebr.
 Parkersburg, W. Va.¹.....Ohio River and tributaries from below Dam No. 13 to and including Dam No. 23, near Apple Grove, Ohio.
 Pensacola, Fla.....Escambia and Choctawhatchee Rivers and tributaries.
 Philadelphia, Pa.....Delaware River and tributaries, except the Lackawaxen, the Lehigh above Easton, Pa., and the Schuylkill above Perkiomen Creek.
 Phoenix, Ariz.....Gila River and tributaries at and above Gila Bend, Ariz., and the Colorado River and tributaries from, but not including, the San Juan to, but not including the mouth of the Virgin River.
 Pittsburgh, Pa.¹.....Ohio River and tributaries at and above Dam No. 13, except the Tygart River at and above Tygart River Dam, W. Va.
 Portland, Maine.....Rivers in Maine.
 Portland, Oreg.¹.....Columbia River and tributaries below Grand Coulee Dam, except the Snake River at and above Lewiston, Idaho; Oregon Coast drainage north of the Umpqua River basin.
 Pueblo, Colo.....Arkansas River and tributaries in Colorado.
 Raleigh, N. C.....The rivers, and their tributaries, that enter the Atlantic Ocean on the North Carolina coast.
 Reading, Pa.....Schuylkill River and tributaries above Perkiomen Creek.
 Richmond, Va.....James River and tributaries at and below Columbia, Va.
 Sacramento, Calif.....Rivers in the central valleys of California, except the San Joaquin River above the mouth of the Tuolumne River.
 St. Louis, Mo.¹.....Mississippi River and tributaries, except the Missouri at and above Hermann, Mo., from and including Dam No. 24, and its upstream gage to, but not including Cape Girardeau, Mo.
 Salt Lake City, Utah.....Great Salt Lake basin.
 San Antonio, Tex.....Guadalupe, Nueces, and the San Antonio Rivers and tributaries.

San Francisco, Calif.....California Coast drainage, except rivers in the Central Valley of California, from Point Delgada to Point Buchon.
Seattle, Wash.....Puget Sound and Washington Coast drainage, except the Columbia River.
Shreveport, La.Red River and tributaries at and above Alexandria, La.
Sioux City, Iowa.....Missouri River and tributaries from below Bismarck, N. Dak., to and including Sioux City, Iowa.
Spokane, Wash.....Columbia River and tributaries, above and including Grand Coulee Dam.
Topeka, Kans.....Kansas River and tributaries at and above Lawrence, Kans., Osage River and tributaries in Kansas.
Tulsa, Okla.....Arkansas River and tributaries, except the Canadian River, from the Kansas-Colorado line to, and including, Van Buren, Ark.
Vicksburg, Miss.¹.....Mississippi River from the mouth of the White River to and including Natchez, Miss.; Yazoo and Big Black Rivers and tributaries.
Washington, D. C.....Potomac and Rappahannock Rivers and tributaries.
Yuma, Ariz.....Colorado River and tributaries from and including the mouth of the Virgin River, to the Arizona-Mexico border, and the Gila River below Gila Bend, Ariz.

BENNETT SWENSON, Editor

RIVER STATIONS AND MISCELLANEOUS INFORMATION

7

River stations, arranged by drainage areas, and miscellaneous information pertaining thereto—Continued

Station	River	Length of record ¹	Elevation of gage zero above mean sea level ²	Distance of gage above mouth of river ³	Drainage area above gage ⁴	Flood stage	Extreme stages from gage readings ⁵			
							Highest	Date	Lowest	Date
MISSISSIPPI SYSTEM—Continued										
Ohio Basin—Continued										
Lock No. 8, near Mosgrove, Pa.	Allegheny	12	771.7	52.7	8,837	24	37.6	Mar. 18, 1936	9.5	June 2, 1935
Lock No. 5, Schenley, Pa.	do.	71	734.5	30.6	9,329	24	45.7	do.	11.0	July 19, 1936
Lock No. 4, Natrona, Pa.	do.	17	724.5	24.1	11,403	24	43.6	do.	8.0	Feb. 27, 1934
Lock No. 3, Acumonia, Pa.	do.	9	710.0	14.7	11,517	25	45.2	do.	11.1	July 17, 1936
Elkins, W. Va.	Tygart	12	1,800.36	.....	.....	14	15.8	Mar. 18, 1936	.....	.....
Phillippi, W. Va.	do.	25	1,380.66	46	916	20	26.7	Oct. 29, 1937	9.0	Sept. 29, 1930
Beaton, W. Va.	West Fork	41	995.60	69	133	15	20.25	Apr. 16, 1939	-7	June 28, 1936
Confluence, Pa.	Yaughingheny	71	1,302.32	67	1,029	12	21.9	Mar. 29, 1924	10.7	Sept. 6, 1891
Connellsville, Pa.	do.	36	890.13	45	.....	16	20.5	do.	1	Sept. 23, 1906
Butersville, Pa.	do.	26	733.14	13.5	1,715	20	.....	.....	.....	.....
Lock No. 18, Hault, W. Va.	Monongahela	40	838.9	124.2	2,437	22	29.4	Jan. 2, 1919	7	Dec. 6, 1908
Lock No. 20, Morgantown, W. Va.	do.	51	785.65	101.5	2,663	25	39.1	July 10, 1888	-2	Oct. 5, 1873
Lock No. 7, Greensboro, Pa.	do.	66	753.0	84.8	4,447	30	40.4	Mar. 18, 1936	6.2	Sept. 15, 1930
Lock No. 4, Charleroi, Pa.	do.	59	716.17	41.5	5,223	30	43.63	July 11, 1888	4.73	Nov. 18, 1887
Millsport, Pa.	do.	31	718.25	14.6	7,181	20	28.8	Mar. 18, 1936	9	Aug. 10, 1930
Warren, Pa.	Shenango	32	839.82	28.2	678	9	18.6	Mar. 26, 1913	1.7	Sept. 16, 1932
Beaver Falls, Pa.	Beaver	36	.....	5.5	3,066	15	17.4	Mar. 27, 1913	1.8	Aug. 10, 1913
Newcomerstown, Ohio	Tuscarawas	16	780.00	21.1	2,436	.....	21.2	Aug. 9, 1935	13.8	July 29, 1934
Lock No. 10, Zanesville, Ohio	Muskingum	63	665.3	75.8	6,840	25	51.8	Mar. 27, 1913	4.3	Oct. 14, 1886
Lock No. 7, McConnelsville, Ohio	do.	31	635.0	49.2	7,411	22	49.1	do.	3.4	Oct. 9, 1916
Lock No. 3, Lowell, Ohio	do.	15	598.4	13.9	7,978	25	30.3	Aug. 10, 1935	5.8	Aug. 12, 1930
Glenville, W. Va.	Little Kanawha	43	697.79	103.0	365	23	33.6	Nov. 16, 1926	-9	Nov. 10, 1908
Creston, W. Va.	do.	43	621.71	48.0	1,214	20	33.2	Apr. 17, 1939	-3.0	Nov. 4, 1906
Athens, Ohio	Rocking	28	615.59	31.6	944	17	22.75	Apr. 21, 1940	2.0	Aug. 13, 1941
Canton on Gauley, W. Va.	Gauley	28	2,003.28	71	238	23	.....	.....	.....	.....
Summersville, W. Va.	do.	24	.....	42	664	18	28.75	July 4, 1932	6.4	Aug. 10, 1930
Coler, Va.	do.	2	2,208.04	.....	1,131	12	25.7	Aug. 14, 1940	65	July 9, 1930
Ivanhoe, Va.	do.	27	1,941.9	194	1,311	15	38.1	Aug. 14, 1940	0	Aug. 1, 1917
Radford, Va.	do.	48	.....	145	2,761	14	34.1	do.	-2.0	Nov. 3, 1904
Glenlyn, Va.	do.	18	1,462.0	85	3,659	15	27.6	do.	1	Sept. 28, 1928
Hinton, W. Va.	do.	57	1,352.04	63	6,288	14	20.2	Sept. 13, 1878	27	Sept. 27, 1894
Clay, W. Va.	Rik	29	676.60	63.2	1,016	18	32.4	Mar. 14, 1918	1	July 27, 1936
Kanawha Falls, W. Va.	Kanawha	30	622.88	95.0	8,415	25	31.7	Aug. 15, 1940	-9	Oct. 29, 1921
London Dam, London, W. Va.	do.	10	681.0	82.8	8,562	43	32.2	Sept. 5, 1934	.....	.....
Charleston, W. Va.	do.	71	598.65	58.4	10,495	34	41.6	Sept. 14, 1878	-1	Sept. 15, 1881
Lock No. 6, S. Charleston, W. Va.	do.	67	547.90	54.0	10,697	42	48.9	Mar. 5, 1899	1.65	Aug. 26, 1893
Logan, W. Va.	Gandydot	22	639.08	81.4	899	20	27.0	Jan. 28, 1918	0	Oct. 10, 1923
Wayne, W. Va.	Twelvepole Creek	19	604.74	28.8	305	25	28.3	June 30, 1928	2	Oct. 5, 1935
Williamson, W. Va.	Big Fork	37	.....	67.3	941	38	38.1	Jan. 29, 1918	-8	Oct. 2, 1908
Pittsboro, Ky.	Lewis Fork	36	634.03	86.5	1,225	35	49.0	Jan. 29, 1918	-5	Oct. 6, 1941
Paintsville, Ky.	do.	16	566.67	38.5	.....	40	43.16	Feb. 4, 1938	1.06	July 23, 1930
Lock No. 3, Louisville, Ky.	Rig Sandy	65	516.81	28.6	3,821	46	46.0	Mar. 6, 1899	7	Nov. 18, 1894
Delaware, Ohio	Olentangy	34	848.88	28.2	415	9	25.6	Mar. 25, 1913	-1	Dec. 15, 1934
La Rue, Ohio	Scioto	28	910.19	196.2	255	11	15.0	Mar. 20, 1927	1.9	July 31, 1916
Prospect, Ohio	do.	37	891.72	172.2	554	10	15.0	Mar. 22, 1927	2	Oct. 2, 1910
Columbus, Ohio	do.	46	700.03	131.9	1,613	22	22.9	Mar. 25, 1913	-8	July 27, 1923
Cincinnati, Ohio	do.	32	643.03	100.4	3,217	14	28.2	Mar. 26, 1913	1.6	Aug. 17, 1926
Chillicothe, Ohio	do.	36	664.02	70.4	3,847	16	39.8	do.	1.0	Sept. 27, 1916
Kings Mills, Ohio	Little Miami	19	667.10	28.1	1,046	17	33.7	do.	5	July 3, 1914
Cynthiana, Ky.	South Fork	27	.....	45	641	20	22.6	Dec. 24, 1921	5	June 15, 1936
Farmers, Ky.	Licking	27	646.44	172	782	26	31.1	Feb. 8, 1918	1.1	July 11, 1936
Falmouth, Ky.	do.	57	511.15	51.2	2,267	28	41.4	Jan. 23, 1937	-1	Sept. 6, 1930
Pleasant Hill, Ohio	Millcreek	28	846.60	29.2	552	13	17.5	Jan. 15, 1937	6	July 26, 1941
Springfield, Ohio	Mad.	30	861.95	23.6	477	11	15.1	do.	1.3	Aug. 6, 1941
Brookville, Ind.	Whitewater	26	565.73	27	1,230	20	28.59	Feb. 26, 1928	1	Sept. 26, 1941
Sidney, Ohio	Miami	25	824.74	134.8	645	12	14.2	Mar. 21, 1927	-2	Sept. 23, 1940
Piqua, Ohio	do.	33	844.00	122.1	890	17	28.1	Mar. 25, 1913	7	Sept. 17, 1941
Tipp City, Ohio	do.	21	786.77	64.5	968	27	13.6	Mar. 21, 1927	4	Oct. 3, 1941
Dayton, Ohio	do.	51	721.01	64.6	2,515	21	31.7	Mar. 25, 1913	-1	Sept. 28, 1941
Miamisburg, Ohio	do.	21	678.44	66.6	2,719	22	20.6	Jan. 22, 1937	-3	Sept. 17, 1939
Franklin, Ohio	do.	21	656.41	61.3	2,731	16	16.7	do.	0	Sept. 28, 1941
Madison, Ohio	do.	21	621.00	53.3	3,156	15	18.0	Feb. 27, 1928	0	Oct. 8, 1924
Hamilton, Ohio	do.	34	560.00	35.3	3,637	17	43.1	Mar. 26, 1913	-1.7	Oct. 21, 1932
Barard, Ky.	North Fork	19	837.57	96.0	442	20	33.8	May 30, 1927	-4	Aug. 1, 1925
Jackson, Ky.	do.	38	697.67	.....	.....	28	43.1	Feb. 4, 1939	7	Sept. 23-24, 1940
Lock No. 14, Heidelberg, Ky.	Kentucky	27	627.2	249.3	2,639	30	35.6	do.	4.8	Nov. 10, 1930
Lock No. 10, Ford, Ky.	do.	36	556.8	176.3	3,048	30	36.1	Mar. 28, 1913	9.0	Oct. 4, 1938
Lock No. 7, Highbridge, Ky.	do.	43	603.66	117.0	5,024	30	42.2	Jan. 23, 1937	4.7	Nov. 24, 1912
Lock No. 4, Frankfort, Ky.	do.	68	492.17	65.0	5,396	31	47.56	Jan. 25, 1937	3.2	Nov. 1, 1906
Bowling Green, Ky.	Barren	20	409.83	37.6	1,870	28	40.7	Jan. 23, 1937	12.0	Oct. 18, 1923
Manfordsville, Ky.	Green	19	452.20	219	1,707	28	44.5	Dec. 18, 1915	1.7	Oct. 4, 1928
Lock No. 6, Brownsville, Ky.	do.	27	403.26	180.6	2,751	26	54.7	Jan. 24, 1937	6.1	Sept. 10, 1919
Lock No. 4, Woodbury, Ky.	do.	45	373.80	149.5	5,446	33	59.0	do.	5.0	Sept. 17, 1902
Lock No. 2, Ramey, Ky.	do.	45	343.64	62.8	7,691	34	54.42	Jan. 31, 1937	3.7	July 26, 1902
Anderson, Ind.	West Fork	33	.....	242.6	426	10	22.9	Mar. 25, 1913	3.8	June 19, 1916
Noblesville, Ind.	do.	30	.....	215.1	844	14	18.8	Jan. 16, 1913	3.0	Aug. 29, 1914
Indianapolis, Ind.	do.	33	672.62	185.3	1,560	19	29.5	Mar. 26, 1913	2.0	Sept. 17, 1941
Ellettsville, Ind.	do.	36	472.94	78.2	4,470	18	31.3	Mar. 27, 1913	5.5	Jan. 11, 1909
Richmond, Ind.	do.	21	433.20	32.6	4,895	12	25.0	May 22, 1943	2.2	Jan. 1, 1931
Seymour, Ind.	East Fork	21	560.7	167.6	2,292	14	19.5	Jan. 16, 1937	3	Aug. 22, 1936
Williams, Ind.	do.	23	472.56	79.2	4,694	10	25.0	Jan. 25, 1937	-2.0	Jan. 1, 1931
Shoals, Ind.	do.	36	442.21	56.0	4,828	25	42.2	Mar. 28, 1913	1.2	Aug. 24, 1936
Petersburg, Ind.	White	9	400.00	47.8	11,100	16	28.1	Jan. 21, 1937	0	Aug. 26, 1936
Harletton, Ind.	do.	20	363.26	18.9	11,200	16	31.6	Jan. 22, 1937	5	Sept. 30, 1941
Bluffton, Ind.	Wabash	33	.....	421.8	555	10	20.0	Mar. 26, 1913	2	July 26, 1934
Wabash, Ind.	do.	21	.....	.....	1,740	12	24.8	May 18, 1943	.....	.....
Logansport, Ind.	do.	26	.....	343.2	3,860	17	25.3	Mar. 26, 1913	2.2	Dec. 4, 1914
La Fayette, Ind.	do.	30	604.14	301.4	7,324	11	28.4	May 19, 1943	5	July 26, 1936
Covington, Ind.	do.	17	473.97	260.5	8,399	16	32.4	May 20, 1943	1.2	Oct. 5, 1928
Terry Haute, Ind.	do.	45	445.78	204.4	12,333	14	31.3	Mar. 27, 1913	-2.0	Feb. 3, 1932
Vincennes, Ind.	do.	27	396.43	117.2	13,840	14	27.0	May 22, 1943	-8	June 22, 1934
Mount Carmel, Ill.	do.	60	371.46	83.9	28,506	17	31.0	Mar. 30, 1913	-2	Oct. 8, 1940
New Harmony, Ind.	do.	10	353.20	44.0	.....	15	24.4	Jan. 30, 1937	-2	Sept. 30, 1941
New River, Tenn.	New	36	1,092.67	8.0	383	18	41.2	Mar. 23, 1928	.....	.....
Rock Island, Tenn.	Caney Fork	33	647.41	90.3	1,656	30	40.6	Mar. 23, 1929	0	Jan. 2, 1940

See footnotes at end of table.

Station	River	Miscellaneous data	Gage readings	Station	River	Miscellaneous data	Gage readings
		Page	Page			Page	Page
Merced, Tex.	Rio Grande	10	276	Reeds, Minn.	Mississippi	6	112
Merrill, Miss.	Pascagoula	5	93	Red Bluff, Calif.	Sacramento	10	284
Merrill, Wis.	Wisconsin	6	98	Red House, N. Y.	Allegheny	6	
Miamisburg, Ohio	Miami	7	166	Red River Landing, La.	Mississippi	9	264
Midletown, Ohio	do	7	167	Red Wing, Minn.	do	6	111
Midland, Pa.	Ohio	8	198	Reidsville, Ga.	Choopee	5	
Midville, Ga.	Ogeechee	5	68	Renovo, Pa.	Susquehanna—West Branch	4	41
Miles City, Mont.	Yellowstone	6		Resaca, Ga.	Ooetansula	5	81
Milledgeville, Ga.	Oconee	5	71	Reserve, La.	Mississippi	9	266
Millers Ferry, Ala.	Alabama	5	87	Richmond, Tex.	Brazos	10	267
Millstead, Ala.	Tallapoosa	5	85	Richmond, Va.	James	4	50
Mineral Wells, Tex.	Brazos	10	264	Rimini, S. C.	Santee	5	66
Molins, Ill.	Rock	6	101	Ringo Crossing, Tex.	Sulphur	9	
Moncure, N. C.	Haw	5	57	Rio Grande City, Tex.	Rio Grande	10	274
Morris, La.	Ouachita	9	240	Rio Vista, Calif.	Sacramento	10	287
Montague City, Mass.	Connecticut	4		Riparia, Wash.	Snake	10	
Montezuma, Ga.	Flint	5	75	River Falls, Ala.	Conecuh	5	80
Montgomery, Ala.	Alabama	5	86	River Junction, Fla.	Apalachicola	5	77
Monticello, Miss.	Pearl	5	95	Riverside, Tex.	Trinity	10	263
Moorhead, Minn.	Red of North	4	22	Riverton, Va.	Shenandoah	4	46
Morgan City, La.	Atchafalaya	9	258	Rock Island, Tenn.	Caney Fork	7	182
Morgantown, W. Va.	Monongahela	7	146	Rockland, Tex.	Neches	9	260
Morrilton, Ark.	Arkansas	9	237	Rocky Mount, N. C.	Tar	4	53
Morris, Ill.	Illinois	6	106	Rogersville, Tenn.	Holston	8	168
Mosgrove, Pa.	Allegheny	7	140	Rome, Ga.	Ooetansula	5	81
Mount City, Ill.	Ohio	8		Rosman, N. C.	French Broad	8	
Mount Carmel, Ill.	Wabash	7	181	Rumsey, Ky.	Green	7	173
Mount Vernon, Ind.	Ohio	8	215	Sacramento, Calif.	Sacramento	10	286
Mud, Tex.	Colorado	10		Saginaw, Mich.	Saginaw	4	24
Manfordville, Ky.	Green	7	172	Saginaw, Oreg.	Willamette—Coast Fork	10	
Mauncatine, Iowa	Mississippi	6	116	St. Charles, Mo.	Missouri	6	137
Naples, Tex.	Sulphur	9	241	St. Francis, Ark.	St. Francis	9	247
Nashua, N. H.	Merrimack	4	29	St. Francis Lake Lock, Ark.	do	9	247
Nashville, Tenn.	Cumberland	8	185	St. John, Calif.	Story Creek	10	
Natchez, Miss.	Mississippi	9	254	St. Joseph, Mo.	Missouri	6	136
Natrona, Pa.	Allegheny	7	141	St. Louis, Mo.	Mississippi	6	119
Nebraska City, Nebr.	Missouri	6	134	St. Paul, Minn.	do	6	110
Neillsville, Wis.	Black	6	98	St. Thomas, Mo.	Osage	6	120
Neuse, N. C.	Neuse	5	55	Salas, Oreg.	Willamette	10	282
New Braunfels, Tex.	Gauley	10		Salida, Colo.	Arkansas	9	
Newburgh, Ind.	Ohio	8		Saltburg, Pa.	Kiskadeinitas	6	138
Newcomertown, Ohio	Tuscarawas	7	148	Sapinero, Colo.	Gumison	10	
New Harmony, Ind.	Wabash	7	181	Savannah, Tenn.	Tennessee	8	196
New Madrid, Mo.	Mississippi	9	251	Schenley, Pa.	Allegheny	7	141
New Orleans, La.	do	9	256	Selma, Ala.	Alabama	5	86
Newport, Ark.	White	9	224	Seward, Pa.	Conecuh	6	138
Newport, Pa.	Juniata	4	42	Seymour, Ind.	White—East Fork	7	176
New Richmond, Ohio	Ohio	8	207	Sharon, Pa.	Shenango	7	
New River, Tenn.	New	7	182	Sherburne, N. Y.	Chemango	4	38
Norton, Ala.	Choctawhatchee	5	78	Shoals, Ind.	White—East Fork	7	176
Nicolaus, Calif.	Feather	10	283	Shreveport, La.	Red	9	244
Noblesville, Ind.	White—West Fork	7		Shrubuta, Miss.	Chickasawhay	5	82
North Platte, Nebr.	North Platte	6	121	Sidney, Ohio	Mead	7	164
Do	South Platte	6	121	Simmesport, La.	Atchafalaya	9	267
North Stratford, N. H.	Connecticut	4	31	Sioux City, Iowa	Missouri	6	133
Oklahoma City, Okla.	North Canadian	9	231-232	Smithfield, N. C.	Neuse	5	55
Omaha, Nebr.	Missouri	6	134	Smithville, Tex.	Colorado	10	268
Onsetta, N. Y.	Susquehanna	4	42	Smith Charleston, W. Va.	Kanawha	7	
Orange, Tex.	Sabine	9	260	South Newbury, Vt.	Connecticut	4	
Oregon City, Oreg.	Willamette	10	283	Springbank, Ark.	Red	9	
Oroville, Calif.	Feather	10	283	Springfield, Mass.	Connecticut	4	33
Oscoda, Mo.	Osage	6	128	Springfield, Ohio	Mud	7	183
Oswego, Kans.	Neosho	9	228	Sullivan, Mo.	Merramec	6	109
Ottawa, Iowa	Des Moines	6	105	Summersville, W. Va.	Gauley	7	
Owensboro, Ky.	Ohio	8	214	Sunbury, Pa.	Susquehanna	4	45
Osark, Ark.	Arkansas	9	236	Sutersville, Pa.	Youghiogheny	7	145
Osark Beach, Mo.	White	8	222	Swan Lake, Miss.	Tallahatchie	9	249
Packah, Ky.	Ohio	8	218	Tarboro, N. C.	Tar	5	54
Paintsville, Ky.	Lewis Fork	7	159	Tell City, Ind.	Ohio	8	213
Pacifica, Colo.	Gumison—North Fork	10		Terra Haute, Ind.	Wabash	7	180
Parkersburg, W. Va.	Ohio	8	200	The Dalles, Oreg.	Columbia	11	
Parkers Landing, Pa.	Allegheny	6	140	Three Rivers, Tex.	Neuses	10	271
Parklin, Ark.	St. Francis	9	248	Tiffin, Ohio	Sandusky	4	27
Pearl River, La.	Pearl	5	96	Tipp City, Ohio	Miami	7	166
Pelzer, S. C.	Saluda	5	61	Topeka, Kans.	Kansas	6	125
Pemacook, N. H.	Contoocook	4	28	Towanda, Pa.	Susquehanna	4	44
Peoria, Ill.	Illinois	6	107	Tracy, Iowa	Des Moines	6	104
Perkins, Okla.	Cimarron	9	226	Trenton, Mo.	Thompson Fork	6	126
Perry, Ill.	Illinois	6	106	Trenton, N. J.	Delaware	4	37
Petersburg, Ind.	White	7	177	Tribe Hill, N. Y.	Mohawk	4	34
Phillippi, W. Va.	Tygart	7	143	Trinidad, Tex.	Trinity	10	262
Pickwick Dam, Tenn.	Tennessee	8	195	Trinidad, Wash.	Columbia	11	294
Pierre, S. Dak.	Missouri	6	132	Tulsa, Okla.	Arkansas	9	234
Pikeville, Ky.	Lewis Fork	7	158	Tuscaloosa, Ala.	Black Warrior	5	87
Pine Bluff, Ark.	Arkansas	9	238	Umatilla, Oreg.	Columbia	11	285
Piqua, Ohio	Miami	7	165	Union, Mo.	Bourbeuse	6	108
Pittsburgh, Pa.	Ohio	8	197	Uniontown, Ky.	Ohio	8	216
Pleasant Hill, Ohio	Stillwater	7	163	Upper Sandusky, Ohio	Sandusky	4	26
Plymouth, N. H.	Pemigewasset	4	28	Valley Junction, Tex.	Brazos	10	266
Point Pleasant, W. Va.	Ohio	8	202	Valley Park, Mo.	Merramec	6	109
Poplar Bluff, Mo.	Black	8	221	Van Buren, Ark.	Arkansas	9	235
Portage, Wis.	Wisconsin	6	100	Vanceburg, Ky.	Ohio	8	
Port Jarvis, N. Y.	Delaware	4	36	Vancouver, Wash.	Columbia	11	286
Portland, Mich.	Grand	4		Van Meter, Iowa	Raccoon	6	108
Portland, Oreg.	Willamette	10	283	Vicksburg, Miss.	Mississippi	9	263
Portsmouth, Ohio	Ohio	8	205	Victoria, Tex.	Quadruple	10	270
Poston, S. C.	Pee Dee	5	60	Vincennes, Ind.	Wabash	7	180
Prairie du Chien, Wis.	Mississippi	6	114	Wabash, Ind.	do	7	178
Pratt River, Idaho	Clerk Fork	10	288	Waco, Tex.	Brazos	10	266
Prospect, Ohio	Scioto	7	159	Wagoner, Okla.	Neosho	9	229
Pueblo, Colo.	Arkansas	9		Wahpeton, N. Dak.	Red of North	4	32
Quincy, Ill.	Mississippi	6	118	Walpole N. H.	Connecticut	4	32
Radford, Va.	New	7	153	Wasego, Kans.	Kansas	6	125
Rainbow, Tex.	Brazos	10	265	Wapello, Iowa	Iowa	6	102
Salina, Okla.	Arkansas	9	234	Warren, Pa.	Allegheny	6	139
Randolph, Va.	Rosnoke	4	51	Warren, Mo.	Osage	6	128
Ravenwood, W. Va.	Ohio	8	201	Washington, N. Dak.	Missouri	6	
Reading, Pa.	Schuylkill	4	36	Washington, D. C.	Potomac	4	

MISSISSIPPI SYSTEM—OHIO BASIN—Continued

1942	January	February	March	April	May	June	July	August	September	October	November	December	1943	January	February	March	April	May	June	July	August	September	October	November	December
WABASH RIVER AT TERRE HAUTE, IND.																									
Wabash—Ohio																									
[Elevation of gage zero, 445.78 feet, m.s.l. Flood stage, 14 feet]																									
1..	2.8	2.5	4.7	6.0	3.8	2.3	2.7	1.1	3.2	1.8	0.8	5.3	1..	15.2	5.2	4.3	5.5	4.3	16.3	4.8	5.0	3.2	2.1	1.8	1.8
2..	2.8	4.1	4.4	7.7	3.7	2.3	2.3	2.6	2.4	1.5	1.3	4.8	2..	15.8	4.7	5.0	5.1	4.3	15.3	4.8	5.1	3.1	2.2	1.8	1.8
3..	2.7	4.5	4.3	7.1	3.7	2.1	2.0	8.0	2.0	1.3	1.4	4.2	3..	15.9	4.2	3.8	4.8	3.9	13.2	4.3	4.7	2.8	2.2	1.7	1.8
4..	2.8	5.0	4.1	6.8	5.1	2.7	1.8	8.8	1.8	1.3	1.4	3.8	4..	15.6	4.5	3.2	4.6	3.7	11.7	4.2	8.3	2.5	2.0	1.7	1.8
5..	1.0	9.8	4.1	6.4	4.6	2.5	1.7	8.3	1.6	1.3	1.6	1.7	5..	14.5	4.8	2.8	4.1	3.2	10.1	4.5	8.8	3.0	1.9	1.8	1.8
6..	1.0	13.4	4.0	6.0	4.3	2.7	1.6	7.6	1.5	1.8	1.5	1.5	6..	12.5	6.3	2.9	4.0	3.1	9.4	6.0	9.5	2.9	1.9	1.8	1.8
7..	1.9	15.1	4.0	5.8	4.4	3.0	1.6	7.0	1.6	1.8	1.5	1.5	7..	11.2	7.0	2.7	3.7	3.2	9.4	5.8	11.6	3.6	1.8	1.9	1.8
8..	1.9	16.1	4.7	9.1	4.4	3.8	2.0	5.9	1.4	2.1	1.7	1.7	8..	10.1	8.4	2.5	3.6	9.3	9.6	6.8	11.9	3.9	1.8	2.6	1.9
9..	2.0	17.1	11.5	12.8	4.2	3.8	3.1	5.9	1.8	1.9	1.7	1.7	9..	8.7	9.1	2.4	3.6	10.9	10.0	8.4	9.8	10.0	1.8	3.2	1.9
10..	2.0	18.0	14.1	14.7	4.0	3.9	4.1	4.3	1.8	1.8	2.0	3.3	10..	8.5	8.6	2.4	3.6	11.3	9.9	8.3	8.4	6.2	1.8	3.9	1.9
11..	2.5	18.4	14.6	15.6	4.2	3.5	7.8	3.6	1.6	1.5	2.0	3.3	11..	6.5	8.0	3.6	3.6	15.0	9.3	6.7	6.0	5.3	1.8	4.2	1.9
12..	2.0	18.2	15.0	16.0	3.9	3.3	4.9	3.5	1.5	1.4	6.4	3.1	12..	5.8	8.2	4.7	3.6	17.0	8.8	6.2	5.2	4.4	1.6	4.2	1.9
13..	2.5	17.7	15.2	16.4	4.0	4.0	3.7	3.8	1.5	1.3	7.9	2.3	13..	5.1	9.1	6.4	4.2	18.5	8.0	5.4	4.8	4.1	1.8	3.9	1.9
14..	1.8	16.7	15.5	16.4	3.8	3.9	3.3	3.8	1.5	1.2	7.3	1.7	14..	4.4	9.0	7.1	4.3	18.7	7.7	5.5	4.4	3.7	1.7	3.3	1.8
15..	1.8	14.9	15.7	16.9	4.1	12.1	3.2	3.2	1.7	1.1	6.3	1.5	15..	4.3	8.8	6.5	5.0	19.2	8.8	6.0	3.8	3.5	1.7	3.1	1.8
16..	1.3	11.6	15.7	16.8	5.9	12.0	3.5	3.0	1.7	1.0	5.0	2.0	16..	4.2	7.0	6.2	6.1	20.5	9.8	5.7	4.2	3.4	1.9	2.9	1.8
17..	1.3	12.5	15.3	16.0	7.1	10.4	3.2	2.4	1.2	1.0	4.3	2.1	17..	4.4	4.5	9.2	6.1	21.4	9.0	5.0	5.0	3.2	1.8	2.9	1.2
18..	1.3	14.1	14.9	14.5	7.1	9.2	2.6	2.4	1.2	1.0	5.8	2.3	18..	4.8	4.5	12.3	5.2	24.0	8.1	4.9	4.6	3.1	1.9	2.7	1.2
19..	1.3	14.4	14.8	11.7	6.2	8.0	2.1	2.0	1.2	1.0	4.6	2.8	19..	4.6	4.0	13.5	4.2	26.8	8.0	4.8	4.2	3.0	1.9	2.7	1.2
20..	1.3	14.4	15.0	9.1	5.6	7.8	1.9	1.8	1.2	1.0	4.1	2.5	20..	6.0	14.5	4.0	30.2	7.1	4.7	3.8	3.0	1.9	2.5	1.3	1.8
21..	1.5	14.4	15.4	7.7	5.4	7.3	2.8	1.7	1.7	1.0	5.1	2.2	21..	3.0	6.2	15.0	3.8	30.1	6.5	6.2	3.4	2.8	1.9	2.5	1.4
22..	1.4	13.5	15.6	6.7	4.9	5.5	3.2	1.9	1.6	1.0	6.4	2.7	22..	3.0	5.8	15.4	3.6	28.2	6.7	6.1	3.2	2.8	1.9	2.3	1.4
23..	1.4	10.7	15.8	6.1	4.4	4.6	2.3	1.8	1.4	1.0	7.8	2.4	23..	2.7	5.9	15.8	3.5	25.9	7.4	5.5	3.0	2.7	1.9	2.3	1.4
24..	1.5	8.4	15.2	5.6	4.4	4.1	1.8	1.5	1.3	1.0	7.5	2.6	24..	5.2	5.8	15.9	3.5	23.6	7.7	4.6	3.0	2.6	1.9	2.3	1.4
25..	1.5	7.3	13.4	5.8	3.7	3.9	1.5	1.3	1.0	1.0	8.5	2.8	25..	6.0	6.0	15.7	3.5	22.5	6.9	4.2	2.9	2.4	1.9	2.2	1.5
26..	1.5	6.3	10.6	5.0	3.7	4.5	1.3	1.4	1.0	1.0	8.9	3.6	26..	6.4	5.6	14.8	3.5	21.3	6.4	4.0	2.8	2.3	1.9	2.1	1.4
27..	1.4	5.5	9.6	4.7	3.1	4.2	1.3	1.2	1.0	1.0	8.4	6.8	27..	6.8	5.2	12.0	3.3	20.4	6.4	3.9	2.7	2.2	1.9	2.1	1.4
28..	1.8	5.2	8.9	4.5	3.1	4.2	1.5	1.1	1.0	1.0	8.2	9.8	28..	7.0	4.8	9.2	3.4	19.0	6.3	3.6	2.7	2.2	1.9	2.0	1.4
29..	1.4	.....	8.4	4.4	3.1	3.2	1.3	3.3	1.0	1.0	7.0	12.8	29..	7.0	.....	8.5	3.5	18.4	5.8	3.6	2.7	2.4	1.9	1.9	1.4
30..	1.4	.....	8.5	4.3	2.7	2.9	1.6	3.5	1.8	1.0	5.8	13.9	30..	6.2	.....	8.6	3.5	17.3	4.8	3.6	3.5	2.3	1.8	1.9	1.4
31..	1.4	.....	8.5	.....	2.5	.....	1.4	3.2	.....	1.0	.....	14.5	31..	5.5	.....	6.0	.....	16.7	.....	3.8	3.5	.....	1.7	.....	1.4
M'n..	1.7	11.8	11.0	9.6	4.4	5.1	2.6	3.6	1.5	1.1	4.8	4.2	M'n..	7.5	6.3	8.7	4.1	16.5	8.8	5.2	5.2	3.3	1.9	2.5	1.6

WABASH RIVER AT VINCENNES, IND.

Wabash—Ohio

[Elevation of gage zero, 396.43 feet, m.s.l. Flood stage, 14 feet]

1..	2.6	1.6	4.7	8.2	3.5	2.2	4.7	1.5	2.5	1.2	0.6	5.4	1..	10.9	4.9	3.9	5.6	3.2	18.4	4.3	2.4	2.2	1.1	0.6	0.9
2..	2.8	2.2	4.2	7.5	3.3	2.1	4.1	1.3	2.4	1.4	1.6	4.8	2..	11.0	4.3	3.6	5.0	3.4	17.6	3.8	3.1	2.0	1.0	1.0	1.8
3..	2.6	2.6	4.0	7.0	3.2	2.0	3.9	1.3	2.1	1.3	1.9	4.4	3..	11.3	4.0	3.4	4.4	3.3	16.7	3.4	3.5	1.8	1.0	1.0	1.7
4..	2.5	3.0	4.0	6.4	4.0	2.0	2.9	4.9	1.9	1.2	1.0	4.2	4..	11.2	5.0	3.0	4.1	3.1	15.8	3.1	3.4	1.6	1.0	1.0	1.7
5..	2.0	5.0	3.9	6.2	5.4	2.0	2.3	6.2	2.5	1.2	1.2	3.3	5..	11.5	5.9	2.9	3.9	3.0	14.8	3.3	5.0	1.5	1.0	1.0	1.7
6..	^{0.2} 2.0	8.3	3.6	5.6	4.9	2.0	2.9	6.2	1.6	1.5	1.6	2.7	6..	11.5	6.0	2.4	3.7	2.7	13.0	4.1	6.3	1.7	1.0	1.0	1.7
7..	^{0.4} 2.2	10.5	3.6	5.1	5.0	2.3	2.5	5.9	2.1	1.2	1.2	1.9	7..	11.5	5.8	2.2	3.4	2.6	11.6	4.7	6.4	1.7	1.0	1.0	1.7
8..	^{0.1} 1.5	11.6	3.6	4.6	4.8	2.8	2.3	5.6	1.6	1.3	1.1	2.0	8..	10.7	5.9	2.3	3.2	4.1	9.8	4.8	7.6	1.6	1.0	1.0	1.7
9..	^{0.1} 1.5	12.0	6.0	9.0	4.2	3.2	3.9	5.3	1.5	1.6	1.2	2.7	9..	9.5	6.5	2.0	3.1	8.2	9.3	5.0	8.2	2.4	1.0	1.0	1.7
10..	^{0.1} 1.6	12.7	9.5	12.2	3.8	3.7	3.9	4.4	1.6	1.6	1.4	2.7	10..	8.5	7.0	1.8	3.1	9.3	8.9	6.0	7.7	3.3	1.0	1.0	1.7
11..	^{0.1} 1.9	13.0	11.0	13.5	3.5	3.4	4.4	3.8	1.7	1.6	1.4	2.8	11..	6.9	7.3	1.9	3.4	11.4	8.6	5.9	6.2	4.3	1.0	1.0	1.7
12..	^{0.2} 2.0	13.5	11.6	14.0	3.5	3.2	6.4	3.3	1.4	1.3	1.9	2.7	12..	6.0	7.0	2.8	3.9	14.0	8.0	5.2	5.0	4.0	1.0	1.0	1.7
13..	^{0.2} 2.2	14.5	12.0	14.5	3.5	3.8	5.6	3.0	1.3	1.2	4.0	2.7	13..	5.3	6.7	3.4	4.0	16.7	7.4	4.8	4.2	3.3	1.0	1.0	1.7
14..	^{0.2} 2.2	15.1	12.5	14.8	3.4	4.4	5.2	3.0	1.2	1.2	5.3	2.0	14..	4.6	6.9	4.6	4.0	18.3	6.8	4.3	3.7	3.0	1.0	1.0	1.7
15..	^{0.2} 2.2	16.1	13.0	15.0	4.0	7.4	4.8	3.2	1.2	1.1	5.6	1.6	15..	4.0	6.8	5.1	3.7	18.8	6.4	4.0	3.4	2.6	1.0	1.0	1.7
16..	^{0.2} 2.1	16.3	13.3	15.1	4.1	9.0	4.8	3.5	1.4	1.0	4.8	1.5	16..	4.0	7.0	5.2	3.6	19.3	6.9	4.3	2.8	2.4	1.0	1.0	1.7
17..	^{0.2} 2.0	16.1	13.6	15.3	5.0	9.6	3.5	2.8	1.2	1.0	4.2	1.4	17..	3.8	6.3	5.1	4.1	19.7	7.4	4.3	2.7	2.2	1.0	1.0	1.7
18..	^{0.1} 1.9	15.4	13.8	15.3	5.6	9.1	3.0	2.3	1.3	1.0	4.0	1.5	18..	3.8	4.1	7.6	4.8	20.7	7.3	4.0	3.4	2.1	1.0	1.0	1.7
19..	^{0.2} 2.0	14.6	13.8	15.0	5.6	7.9	2.6	2.0	1.2	1.0	6.0	1.6	19..	4.0	2.9	9.2	4.2	¹² 22.4	6.7	3.7	3.3	2.0	1.0	1.0	1.7
20..	1.6	13.6	13.5	14.8	5.3	8.3	2.3	1.9	1.1	1.0	5.5	1.9	20..	3.8	2.9	11.4	3.9	¹³ 22.8	6.4	3.5	3.0	1.8	1.0	1.0	1.7
21..	1.2	13.0	13.1	12.9	4.8	8.7	2.0	1.7	1.1	1.0	4.3	2.0	21..	3.3	4.6	12.1	3.4	23.8	5.8	3.7	2.7	1.7	1.0	1.0	1.7
22..	1.2	12.7	12.9	9.8	4.6	9.7	2.1	1.6	1.1	1.0	5.8	2.0	22..	2.4	4.2	12.1	3.1	¹⁴ 26.3	5.2	4.4	2.5	1.7	1.0	1.0	1.7
23..	1.1	12.1	12.7	7.5	4.1	8.3	2.8	1.5	1.2	1.0	6.5	2.0	23..	2.0	4.4	12.3	3.0	26.9	5.2	4.5	2.2	1.6	1.0	1.0	1.7
24..	1.1	11.1	12.7	6.1	3.8	8.3	2.4	1.9	1.3	1.0	6.5	2.2	24..	2.3	4.6	12.3	3.3	26.3	5.4	4.1	2.0	1.4	1.0	1.0	1.7
25..	1.3	9.1	12.7	5.4	3.4	5.3	2.0	1.7	1.2	1.0	6.8	3.0	25..	3.6	4.6	12.3	3.3	25.4	5.9	3.6	1.9	1.3	1.0	1.0	1.7
26..	1.2	7.3	12.7	4.9	3.1	4.3	2.0	1.4	1.1	1.0	7.2	3.0	26..	4.6	4.8	12.2	3.0	24.4	5.9	3.1	1.8	1.2	1.0	1.0	1.7
27..	1.2	6.0	12.3	4.6	3.0	¹¹ 8.5	1.5	1.2	1.1	1.0	7.6	3.4	27..	4.0	4.5	12.4	3.0	23.4	5.5	2.9	1.8	1.2	1.0	1.0	1.7
28..	1.2	5.4	11.6	4.2	2.8	8.6	1.9	1.1	1.0	1.0	7.5	5.5	28..	5.2	4.2	12.3	3.0	22.4	5.2	2.7	1.6	1.1	1.0	1.0	1.7
29..	1.1	.....	10.7	4.0	2.7	8.2	1.6	1.1	1.0	1.0	7.1	8.6	29..	4.5	.....	11.4	2.9	21.3	5.3	2.6	1.5	1.1	1.0	1.0	1.7
30..	1.1	.....	10.3	3.8	2.6	5.4	1.5	1.8	1.1	1.0	6.3	9.3	30..	5.4	.....	8.6	2.8	20.2	4.7	2.6	1.5	1.1	1.0	1.0	1.7
31..	1.0	.....	8.9	.....	2.4	.....	1.5	2.7	.....	1.0	.....	10.3	31..	5.0	.....	6.7	.....	19.2	.....	2.5	2.0	.....	1.0	1.0	1.7
Mn..	1.6	10.5	9.9	9.4	4.0	5.4	3.1	2.9	1.5	1.1	4.0	3.4	Mn..	6.3	5.3	6.8	3.7	15.7	6.7	4.0	3.6	2.0	1.0	1.0	1.7

UNITED STATES DEPARTMENT OF COMMERCE

HENRY A. WALLACE, *Secretary*

WEATHER BUREAU

F. W. REICHELDERFER, *Chief*

DAILY RIVER STAGES

AT RIVER GAGE STATIONS ON THE
PRINCIPAL RIVERS OF THE
UNITED STATES

REFERENCE
DO NOT CIRCULATE

Volume XL

1944

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GOVERNMENT PRINTING OFFICE
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DAILY RIVER STAGES—1944

INTRODUCTION

This volume, containing the daily river stages for 1944 is the fortieth of a series of Daily River Stages on the Principal Rivers of the United States, the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.

II. Stages of the Mississippi River and of its Principal Tributaries, except the Ohio River, 1860 to 1889.

III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.

DAILY RIVER STAGES AT RIVER GAGE STATIONS ON THE PRINCIPAL RIVERS OF THE UNITED STATES

Volume IV. 1890 to 1892.	Volume XIII. 1915.	Volume XXII. 1924.	Volume XXXI. 1933.
V. 1893 to 1895.	XIV. 1916.	XXIII. 1925.	XXXII. 1934.
VI. 1896 to 1899.	XV. 1917.	XXIV. 1926.	XXXIII. 1935.
VII. 1900 to 1904.	XVI. 1918.	XXV. 1927.	XXXIV. 1936.
VIII. 1905 and 1906.	XVII. 1919.	XXVI. 1928.	XXXV. 1937.
IX. 1907 and 1908.	XVIII. 1920.	XXVII. 1929.	XXXVI. 1938.
X. 1909 and 1910.	XIX. 1921.	XXVIII. 1930.	XXXVII. 1939.
XI. 1911 and 1912.	XX. 1922.	XXIX. 1931.	XXXVIII. 1940 and 1941.
XII. 1913 and 1914.	XXI. 1923.	XXX. 1932.	XXXIX. 1942 and 1943.

Volumes XXXIII to XL can be bought from the Superintendent of Documents, Washington, D. C.; other volumes are out of print and cannot be supplied.

The river stages are the vertical distances, in feet and tenths, of the water surface above or below the zero of the gage. The zero has, as a rule, been set at or near the lowest known water.

Gage readings are usually made at 8 a.m., seventy-fifth meridian time, east of the Continental Divide, and at 7 a.m., local time, west of the divide.

Extreme stages for a month, or important crest stages, not observed at the regular time for reading the gage, are printed as a note at the foot of the table or page. This practice was begun in 1907.

In some cases the zero planes of gages have been changed, either through accident or through necessary removals. The stations at which changes have occurred are given in a table headed "Corrigenda," and the corrections required to reduce previous readings to the zero now in use are also given in the table if they have not been previously published.

The country is divided into districts, and each district has a designated center at which the administrative and forecasting work is carried on. The following table shows the centers and their districts. Superior figure ⁽¹⁾ opposite a center indicates that stage forecasts are made daily throughout the year, and ⁽²⁾ indicates that stage forecasts are made daily during seasons of navigation and in times of flood. At those centers not bearing a reference, forecasts are made only during times of flood.

ADMINISTRATIVE AND FORECASTING CENTERS AND THEIR DISTRICTS

Albany, N. Y.....	Hudson River and tributaries.
Albuquerque, N. Mex.....	Pecos River in New Mexico; Rio Grande and tributaries at and above Elephant Butte Reservoir Dam, N. Mex.; Canadian River and tributaries in New Mexico; and the San Juan River and tributaries.
Allentown, Pa.....	Lackawaxen River and the Lehigh River above, but not including, Easton, Pa.
Asheville, N. C.....	French Broad River and tributaries above North Carolina-Tennessee State line.
Atlanta, Ga.....	Apalachicola, Altamaha, St. Marys, and Satilla Rivers and tributaries.
Augusta, Ga.....	Savannah and Ogeechee Rivers and tributaries.
Austin, Tex.....	Colorado River (of Texas) and tributaries.
Billings, Mont.....	Yellowstone River and tributaries.
Binghamton, N. Y.....	Susquehanna River and tributaries above Towanda, Pa.
Bismarck, N. Dak.....	Missouri River and tributaries, from and including Fort Peck Dam, to and including Bismarck, N. Dak., except the Milk and Yellowstone.
Boise, Idaho.....	S Snake River and tributaries, above and including Lewiston, Idaho.
Brownsville, Tex.....	Rio Grande below Laredo, Tex.

- Burbank, Calif.....California Coast drainage south of Point Buchon; the Salton Sea basin; Great Basin in California, south of including Mono Lake drainage.
- Burlington, Iowa.....Mississippi River and tributaries, except the Des Moines above Eldon, Iowa, from and including Dam No. 18 upstream gage to, but not including Dam No. 24.
- Cairo, Ill.¹.....Ohio River below Dam No. 50 at Fords Ferry, Ky.; Mississippi River from and including Cape Girardeau, Mo., including New Madrid, Mo.; Tennessee River and tributaries below Decatur, Ala.
- Charleston, S. C.....Rivers of northeastern South Carolina.
- Chattanooga, Tenn.¹.....Tennessee River and tributaries from below Knoxville, Tenn., to and including Decatur, Ala.
- Cincinnati, Ohio¹.....Ohio River and tributaries, except the Scioto River, from below Dam No. 30, to and including the mouth of the tucky River.
- Columbia, S. C.....Santee River and tributaries.
- Columbus, Ohio.....Sandusky and Scioto Rivers.
- Concord, N. H.....Merrimack River and tributaries.
- Dallas, Tex.....Trinity River and tributaries above Long Lake, Tex.
- Davenport, Iowa.....Mississippi River and tributaries from and including Dam No. 10, to but not including Dam No. 18.
- Del Rio, Tex.....The Rio Grande and tributaries from, but not including the Pecos River, to and including Laredo, Tex.
- Denver, Colo.....North Platte and South Platte Rivers and tributaries, at and above North Platte, Nebr.
- Des Moines, Iowa.....Des Moines River and tributaries above Eldon, Iowa.
- Elkins, W. Va.....Tygart River and tributaries at and above the Tygart River Dam, W. Va.
- El Paso, Tex.....The Rio Grande and tributaries from below Elephant Butte Reservoir Dam, N. Mex., to and including the mouth of the Pecos River; the Pecos River in Texas.
- Eureka, Calif.....California Coast drainage from Point Delgade northward to, but not including the Klamath River.
- Evansville, Ind.¹.....Ohio River and tributaries, except the Wabash River, from below Hawesville, Ky., to and including Dam No. 1 at Fords Ferry, Ky.
- Fargo, N. Dak.....Red River of the North and tributaries below the Canadian line.
- Fort Wayne, Ind.....Maumee River and tributaries.
- Fresno, Calif.....San Joaquin River and tributaries above the mouth of the Tuolumne River.
- Grand Junction, Colo.....Colorado River and tributaries above, but not including, the mouth of the San Juan.
- Grand Rapids, Mich.....Grand River and tributaries below Grand Ledge, Mich.
- Harrisburg, Pa.¹.....Susquehanna River and tributaries at and below Towanda, Pa.
- Hartford, Conn.....Connecticut River and tributaries.
- Helena, Mont.....Missouri River and tributaries, above Fort Peck Dam; Milk River.
- Houston, Tex.¹.....Neches and Brazos Rivers; Trinity River at and below Long Lake, Tex.
- Huntington, W. Va.¹.....Ohio River and tributaries from below Dam No. 23 to and including Dam No. 30, Greenup, Ky.
- Indianapolis, Ind.....Wabash River and tributaries.
- Kansas City, Mo.¹.....Missouri River and tributaries, except the Kansas River at and above Lawrence, Kans., from the mouth of the River to and including Lexington, Mo.
- Knoxville, Tenn.¹.....Tennessee River and tributaries at and above Knoxville, Tenn., except French Broad River and tributaries North Carolina-Tennessee State line.
- La Crosse, Wis.².....Mississippi River and tributaries from and including Dam No. 2 to and including Dam No. 10; Lake Superior from but not including St. Louis River eastward to Wisconsin-Michigan State Line (including Montreal River); Lake Michigan drainage from and including Menominee River southward to Wisconsin-Illinois State line.
- Lake Charles, La.....Sabine, Calcasieu, Mergentau, and Vermillion Rivers.
- Lansing, Mich.....Grand River and tributaries at and above Grand Ledge, Mich.; Saginaw River and tributaries.
- Little Rock, Ark.¹.....Arkansas River and tributaries below Van Buren, Ark.; White River and tributaries; Ouachita River and tributaries in Arkansas.
- Louisville, Ky.¹.....Ohio River and tributaries from below the mouth of the Kentucky to and including Hawesville, Ky.
- Lynchburg, Va.....James River and tributaries above Columbia, Va.
- Medford, Oreg.....Oregon and California Coast drainage, from and including Umpqua River basin, southward to and including the River and tributaries; the Great Basin in Oregon, except the Quinn River.
- Memphis, Tenn.¹.....Mississippi River from below New Madrid, Mo., to the mouth of the White River; St. Francis River and tributaries.
- Meridian, Miss.....Pascagoula and Pearl Rivers and tributaries.
- Minneapolis, Minn.....Mississippi River and tributaries above, but not including Dam No. 2.
- Mobile, Ala.¹.....Tombigbee River and tributaries.
- Montgomery, Ala.....Alabama River and tributaries.
- Nashville, Tenn.¹.....Cumberland River and tributaries.
- New Orleans, La.¹.....Mississippi River below Natchez, Miss.; Red River below Alexandria, La.; Ouachita and Black Rivers and tributaries in Louisiana; Atchafalaya River.
- Oklahoma City, Okla.....Canadian River and tributaries east of the eastern boundary of New Mexico.
- Omaha, Nebr.....Missouri River and tributaries, from below Sioux City, Iowa, to and including the mouth of the Platte, except North Platte and the South Platte at and above North Platte, Nebr.
- Parkersburg, W. Va.¹.....Ohio River and tributaries from below Dam No. 13 to and including Dam No. 23, near Apple Grove, Ohio.
- Pensacola, Fla.....Escambia and Choctawhatchee Rivers and tributaries.
- Philadelphia, Pa.....Delaware River and tributaries, except the Lackawaxen, the Lehigh above Easton, Pa., and the Schuylkill and Perkiomen Creek.
- Phoenix, Ariz.....Gila River and tributaries at and above Gila Bend, Ariz., and the Colorado River and tributaries from, but not including, the San Juan to, but not including the mouth of the Virgin River.
- Pittsburgh, Pa.¹.....Ohio River and tributaries at and above Dam No. 13, except the Tygart River at and above Tygart River Dam.
- Portland, Maine.....Rivers in Maine.
- Portland, Oreg.¹.....Columbia River and tributaries below Grand Coulee Dam, except the Snake River at and above Lewiston, Idaho; Coast drainage north of the Umpqua River basin.
- Pueblo, Colo.....Arkansas River and tributaries in Colorado.
- Raleigh, N. C.....The rivers, and their tributaries, that enter the Atlantic Ocean on the North Carolina coast.
- Reading, Pa.....Schuylkill River and tributaries above Perkiomen Creek.
- Richmond, Va.....James River and tributaries at and below Columbia, Va.
- Sacramento, Calif.....Rivers in the central valleys of California, except the San Joaquin River above the mouth of the Tuolumne

INTRODUCTION

St. Louis, Mo.¹.....Mississippi River and tributaries, from and including Dam No. 24, and its upstream gage to, but not including Cape Girardeau, Mo., except the Osage River in Kansas and the Missouri River at and above Lexington, Mo.

Salt Lake City, Utah.....Great Salt Lake basin.

San Antonio, Tex.....Guadalupe, Nueces, and the San Antonio Rivers and tributaries.

San Francisco, Calif.....California Coast drainage, except rivers in the Central Valley of California, from Point Delgada to Point Buchon.

Seattle, Wash.....Puget Sound and Washington Coast drainage, except the Columbia River.

Shreveport, La.¹.....Red River and tributaries at and above Alexandria, La.

Sioux City, Iowa.....Missouri River and tributaries from below Bismarck, N. Dak., to and including Sioux City, Iowa.

Spokane, Wash.....Columbia River and tributaries, above and including Grand Coulee Dam.

Topeka, Kans.....Kansas River and tributaries at and above Lawrence, Kans., Osage River and tributaries in Kansas.

Tulsa, Okla.....Arkansas River and tributaries, except the Canadian River, from the Kansas-Colorado line to, and including, Van Buren, Ark.

Vicksburg, Miss.¹.....Mississippi River from the mouth of the White River to and including Natchez, Miss.; Yazoo and Big Black Rivers and tributaries.

Washington, D. C.....Potomac and Rappahannock Rivers and tributaries.

Yuma, Ariz.....Colorado River and tributaries from and including the mouth of the Virgin River, to the Arizona-Mexico border, and the Gila River below Gila Bend, Ariz.

BENNETT SWENSON, *Editor*

RIVER STATIONS AND MISCELLANEOUS INFORMATION

7

River stations, arranged by drainage areas, and miscellaneous information pertaining thereto—Continued

Station	River	Length of record ¹	Elevation of gage zero above mean sea level ²	Distance of gage above mouth of river ³	Drainage area above gage ⁴	Flood stage	Extreme stages from gage readings ⁵			
							Highest	Date	Lowest	Date
MISSISSIPPI SYSTEM—Continued										
Ohio Basin—Continued										
Lock No. 3, Amsterdam, Pa.	Allegheny	10	710.0	11.7	11,517	25	45.2	Mar. 18, 1936	11.1	July 17, 1936
Elkins, W. Va.	Tygart	13	1,900.36	.....	.....	14	15.8	Mar. 18, 1936	.....	.....
Phillippi, W. Va.	do.	26	1,380.55	46.0	916	20	26.7	Oct. 29, 1937	0.0	Sept. 29, 1930
Weston, W. Va.	West Fork	42	995.00	69.0	133	15	20.25	Apr. 16, 1939	-7	June 28, 1935
Confluence, Pa.	Youghiogheny	72	1,302.32	67.0	1,029	12	21.9	Mar. 29, 1924	10.7	Sept. 6, 1891
Conneville, Pa.	do.	37	800.13	45.0	.....	16	20.5	do.	1	Sept. 23, 1906
Sutersville, Pa.	do.	27	733.14	19.5	1,715	20	.....	.....	.....	.....
Lock No. 15, Houtt, W. Va.	Monongahela	41	838.9	124.2	2,437	22	31.4	Jan. 2, 1919	7	Dec. 8, 1908
Lock No. 10, Morgantown, W. Va.	do.	62	785.65	101.5	2,693	25	39.1	July 10, 1888	-2	Oct. 5, 1873
Lock No. 7, Greensboro, Pa.	do.	57	753.0	84.8	4,417	30	40.4	Mar. 18, 1936	6.2	Sept. 15, 1930
Lock No. 4, Charleroi, Pa.	do.	59	716.17	11.5	5,223	30	43.53	July 11, 1888	4.73	Nov. 18, 1887
McKeesport, Pa.	do.	32	718.25	14.6	7,161	20	28.8	Mar. 18, 1936	6	Aug. 14, 1944
Sharon, Pa.	Shenango	33	830.82	28.2	.....	9	18.6	Mar. 26, 1913	1.7	Sept. 16, 1932
Beaver Falls, Pa.	Beaver	37	.....	5.5	3,066	15	17.4	Mar. 27, 1913	1.9	Aug. 10, 1913
Newcomerstown, Ohio	Tuscarawas	17	780.00	21.1	2,436	.....	121.2	Aug. 9, 1935	2.5	Aug. 15-16, 1944
Lock No. 10, Zanesville, Ohio	Muskingum	54	695.3	75.8	6,840	25	61.8	Mar. 27, 1913	4.3	Oct. 14, 1895
Lock No. 7, McConnelsville, Ohio	do.	42	635.0	48.2	7,411	22	49.1	do.	3.4	Oct. 8, 1916
Lock No. 3, Lowell, Ohio	do.	16	588.1	13.9	7,078	25	30.3	Aug. 10, 1935	5.8	Aug. 12, 1930
Glenville, W. Va.	Little Kanawha	44	697.79	103.0	3,65	25	33.6	Nov. 16, 1926	-8	Nov. 10, 1909
Creston, W. Va.	do.	44	621.71	48.0	1,214	20	33.2	Apr. 17, 1939	-3.0	Nov. 4, 1906
Athens, Ohio	Hocking	28	615.59	31.8	944	17	22.75	Apr. 21, 1940	2.0	Aug. 13, 1941
Camden on Gauley, W. Va.	Gauley	29	2,003.28	71.0	238	23	.....	.....	.....	.....
Summersville, W. Va.	do.	25	.....	42.0	664	18	28.75	July 4, 1932	.64	Aug. 10, 1930
Galax, Va.	New	3	2,208.04	.....	1,131	12	25.7	Aug. 14, 1940	.56	July 9, 1930
Ivanhoe, Va.	do.	28	1,941.8	194.0	1,311	15	38.1	do.	0	Aug. 1, 1937
Radford, Va.	do.	49	.....	145.0	2,761	14	34.1	do.	-2.0	Nov. 3, 1904
Glenlyn, Va.	do.	19	1,492.0	95.0	3,859	15	27.6	do.	1	Sept. 28, 1926
Hinton, W. Va.	do.	58	1,352.04	63.0	6,288	14	20.2	Sept. 13, 1878	4	Sept. 12, 1944
Clay, W. Va.	Elk	30	678.60	53.2	1,016	18	32.4	Mar. 11, 1918	1	July 27, 1936
Kanawha Falls, W. Va.	Kanawha	31	622.88	95.0	8,415	25	31.7	Aug. 15, 1940	-9	Oct. 28, 1921
London Dam, London, W. Va.	do.	11	581.0	82.8	8,552	43	32.2	Mar. 5, 1934	.....	.....
Charleston, W. Va.	do.	72	558.65	58.4	10,485	34	41.6	Sept. 14, 1878	-1	Sept. 15, 1881
Lock No. 6, S. Charleston, W. Va.	do.	58	547.00	54.0	10,587	42	48.8	Mar. 5, 1909	1.65	Aug. 26, 1893
Logan, W. Va.	Guyandot	23	539.06	81.4	859	20	27.0	Jan. 28, 1918	0	Oct. 10, 1923
Wayne, W. Va.	Twelvepole Creek	20	604.74	28.8	305	25	28.3	June 30, 1928	2	Oct. 5, 1935
Williamson, W. Va.	Tug Fork	37	.....	57.3	941	38	38.1	Jan. 29, 1918	-8	Oct. 2, 1908
Pikeville, Ky.	Levisa Fork	38	634.03	88.5	1,225	35	49.0	Jan. 28, 1918	-5	Oct. 4, 1941
Paintsville, Ky.	do.	17	596.67	38.5	.....	40	42.15	Feb. 4, 1939	1.06	July 23, 1930
Lock No. 3, Louisa, Ky.	Rig Sandy	56	516.81	26.6	3,821	45	48.0	Mar. 6, 1899	7	Nov. 18, 1884
Delaware, Ohio	Olentangy	35	848.58	26.2	415	9	25.5	Mar. 25, 1913	-1	Dec. 15, 1934
La Rue, Ohio	Scioto	28	910.19	196.2	255	11	15.0	Mar. 20, 1927	1.9	July 31, 1919
Prospect, Ohio	do.	38	881.72	172.2	554	10	15.0	Mar. 22, 1927	2	Oct. 2, 1910
Columbus, Ohio	do.	47	700.00	131.9	1,013	22	22.8	Mar. 25, 1913	-8	July 27, 1923
Circleville, Ohio	do.	33	643.03	100.4	3,217	14	28.2	Mar. 26, 1913	1.8	Aug. 17, 1925
Chillicothe, Ohio	do.	37	584.02	70.4	3,847	16	39.8	do.	.85	Sept. 27, 1944
Kings Mills, Ohio	Little Miami	20	587.10	28.1	1,048	17	33.7	Mar. 26, 1913	5	July 3, 1914
Cynthiana, Ky.	South Fork	28	.....	46.0	641	20	22.6	Dec. 24, 1921	5	June 15, 1935
Farmers, Ky.	Licking	28	946.44	172.0	782	25	31.1	Feb. 9, 1918	1.1	July 11, 1936
Falmouth, Ky.	do.	58	511.18	51.2	2,287	28	41.4	Jan. 23, 1937	-1	Sept. 6, 1930
Pleasant Hill, Ohio	Stillwater	29	846.60	20.2	502	13	17.5	Jan. 15, 1937	6	July 26, 1941
Springfield, Ohio	Mad.	31	881.95	23.0	477	11	15.1	do.	1.2	Dec. 4, 1944
Brookville, Ind.	Whitewater	27	595.73	27.0	1,230	20	25.55	Feb. 26, 1929	1	Sept. 25, 1941
Sidney, Ohio	Miami	26	924.74	134.8	545	12	14.2	Mar. 21, 1927	-2	Sept. 23, 1940
Piqua, Ohio	do.	34	844.00	122.1	850	17	29.1	Mar. 25, 1913	7	Sept. 17, 1941
Tipp City, Ohio	do.	22	786.77	104.5	955	27	13.8	Mar. 31, 1927	4	Oct. 3, 1941
Dayton, Ohio	do.	52	721.01	84.5	2,515	21	31.7	Mar. 25, 1913	-1	Sept. 28, 1941
Windsburg, Ohio	do.	22	678.44	68.6	2,718	22	20.6	Jan. 22, 1937	-3	Oct. 17, 1929
Franklin, Ohio	do.	22	658.41	61.3	2,731	16	16.7	do.	0	Nov. 8, 1944
Middletown, Ohio	do.	22	621.00	52.3	3,158	15	18.0	Feb. 27, 1929	0	Oct. 4, 1924
Hamilton, Ohio	do.	35	590.00	35.3	3,637	17	43.1	Mar. 26, 1913	-1.7	Oct. 21, 1932
Hazard, Ky.	North Fork	20	837.57	86.0	442	20	33.8	May 30, 1927	-4	Aug. 1, 1926
Jackson, Ky.	do.	30	697.67	.....	.....	20	43.1	Feb. 4, 1938	3	Aug. 14-17, 1944
Lock No. 14, Heidelberg, Ky.	Kentucky	28	627.2	249.3	2,638	30	35.6	do.	4.8	Nov. 10, 1930
Lock No. 10, Ford, Ky.	do.	30	556.8	176.3	3,948	30	35.1	Mar. 29, 1913	9.0	Aug. 9-14, 1944
Lock No. 7, Highbridge, Ky.	do.	44	503.46	117.5	5,024	30	42.2	Jan. 23, 1937	4.7	Nov. 24, 1912
Lock No. 4, Frankfort, Ky.	do.	58	482.17	65.0	5,386	31	47.56	Jan. 25, 1937	3.2	Nov. 1, 1908
Bowling Green, Ky.	Barren	21	408.83	37.6	1,870	28	40.7	Jan. 23, 1937	11.0	Oct. 18, 1923
Munfordville, Ky.	Green	20	452.20	219.0	1,707	28	44.5	Dec. 18, 1915	1.7	Oct. 4, 1928
Lock No. 6, Brownsville, Ky.	do.	28	403.26	180.6	2,751	28	54.7	Jan. 24, 1937	6.1	Sept. 10, 1919
Lock No. 4, Woodbury, Ky.	do.	46	373.80	149.5	5,446	33	59.0	do.	5.0	Sept. 17, 1902
Lock No. 2, Ramsey, Ky.	do.	46	343.64	62.8	7,691	34	54.42	Jan. 31, 1937	3.7	July 28, 1902
Anderson, Ind.	West Fork	34	.....	242.6	428	10	22.9	Mar. 25, 1913	3.8	June 18, 1918
Nobleville, Ind.	do.	31	.....	215.1	844	14	18.8	Jan. 16, 1937	3.0	Aug. 29, 1914
Indianapolis, Ind.	do.	34	672.92	185.3	1,590	18	29.5	Mar. 26, 1913	2.9	Sept. 17, 1941
Ellettsville, Ind.	do.	37	472.94	78.2	1,470	18	31.3	Mar. 27, 1913	5.3	Oct. 22-Nov. 5, 1944
Indianapolis, Ind.	do.	22	433.20	32.6	4,895	12	25.0	May 22, 1943	2.2	Jan. 1, 1931
Bayview, Ind.	East Fork	22	559.7	197.6	2,292	14	19.5	Jan. 18, 1937	3	Jan. 22, 1936
Williams, Ind.	do.	24	472.66	79.2	4,584	10	25.0	Jan. 25, 1937	-2.0	Jan. 1, 1931
Shoals, Ind.	do.	37	442.21	56.0	4,828	25	42.2	Mar. 28, 1913	1.2	Aug. 24, 1936
Petersburg, Ind.	White	10	800.00	47.8	11,100	18	26.1	Jan. 21, 1937	0	Aug. 26, 1936
Hartsville, Ind.	do.	21	383.26	18.9	11,200	16	31.6	Jan. 22, 1937	5	Sept. 30, 1941
Bluffton, Ind.	Wabash	34	.....	421.8	555	10	20.0	Mar. 26, 1913	2	July 24, 1934
Babash, Ind.	do.	22	.....	.....	1,740	12	24.8	May 18, 1943	.....	.....
Logansport, Ind.	do.	27	.....	343.2	3,801	17	25.3	Mar. 26, 1913	2.2	Dec. 4, 1914
LaFayette, Ind.	do.	31	594.14	301.4	7,324	11	28.4	May 19, 1943	5	July 26, 1936
Covington, Ind.	do.	18	473.97	290.5	8,399	16	32.4	May 20, 1943	1.2	Oct. 8, 1928
Terre Haute, Ind.	do.	48	445.78	204.4	12,333	14	31.3	Mar. 27, 1913	-2.0	Feb. 8, 1932
Vincennes, Ind.	do.	28	399.43	117.2	13,840	14	27.0	May 22, 1943	-8	June 22, 1934
Mount Carmel, Ill.	do.	81	371.40	83.9	28,506	17	31.0	Mar. 30, 1913	-2	Oct. 2, 1940
New Harmony, Ind.	do.	11	353.20	44.0	.....	15	24.4	Jan. 30, 1937	-2	Sept. 30, 1941
New River, Tenn.	New	37	1,082.87	8.0	583	15	41.2	Mar. 23, 1929	.....	.....
Rock Island, Tenn.	Caney Fork	34	647.41	00.3	1,650	30	40.6	do.	0	Dec. 6, 1944
Williamsville, Ky.	Cumberland	37	802.40	592.7	1,673	18	30.4	Mar. 25, 1929	-2.5	Sept. 16, 1919
Harpersville, Ky.	do.	60	585.25	518.4	4,948	20	69.4	Mar. 24, 1929	-1.4	Nov. 8, 1885
Colina, Tenn.	do.	41	489.47	383.1	7,323	28	57.11	Dec. 29, 1926	-2	Oct. 8, 1911

See footnotes at end of table.

Station	River	Miscellaneous data	Gage readings	Station	River	Miscellaneous data	Gage readings
		Page	Page			Page	Page
Miles City, Mont.	Yellowstone	6	.....	Red Wing, Minn.	Mississippi	6	6A
Milledgeville, Ga.	Oconee	5	47	Reidsville, Ga.	Ohoopce	5	.....
Millers Ferry, Ala.	Alabama	5	55	Renovo, Pa.	Susquehanna—West Branch	4	32
Millstead, Ala.	Tallapoosa	5	54	Resaca, Ga.	Oostanaula	5	52
Mineral Wells, Tex.	Brazos	9	.....	Heserve, Ia.	Mississippi	9	140
Moline, Ill.	Rock	6	83	Richmond, Tex.	Brazos	9	145
Moncure, N. C.	Haw	5	40	Richmond, Va.	James	4	37
Monroe, La.	Atchafalaya	9	131	Rimini, S. C.	Santee	5	44
Montague City, Mass.	Connecticut	4	.....	Ringo Crossing, Tex.	Sulphur	9	.....
Montezuma, Ga.	Flint	5	49	Rio Grande City, Tex.	Rio Grande	10	149
Montgomery, Ala.	Alabama	5	55	Rio Vista, Calif.	Sacramento	10	156
Monticello, Miss.	Pearl	5	59	Riparia, Wash.	Snake	10	.....
Moorehead, Minn.	Head of North	4	22	River Falls, Ala.	Concuh	5	52
Morgan City, La.	Atchafalaya	9	141	Riverside, Tex.	Trinity	9	144
Morgantown, W. Va.	Monongahela	7	86	Riverton, Va.	Shenandoah	4	35
Morrilton, Ark.	Arkansas	9	129	Rock Island, Tenn.	Caney Fork	7	104
Morris, Ill.	Illinois	6	85	Rockland, Tex.	Neches	9	142
Mosgrove, Pa.	Allegheny	6	83	Rocky mount, N. C.	Tar	5	38
Mound City, Ill.	Ohio	8	.....	Rome, Ga.	Onstaraula	5	52
Mount Carmel, Ill.	Walash	7	103	Rosman, N. C.	French Broad	8	.....
Mount Vernon, Ind.	Ohio	7	118	Rumsey, Ky.	Green	7	89
Mud, Tex.	Colorado	9	.....	Sacramento, Calif.	Sacramento	10	156
Murfreesville, Ky.	Garden	7	98	Saginaw, Mich.	Saginaw	4	23
Muscatine, Iowa	Mississippi	6	70	Saginaw, Oreg.	Willamette—Coast Fork	10	.....
Naples, Tex.	Sulphur	9	132	St. Charles, Mo.	Missouri	6	81
Nashua, N. H.	Merrimack	4	26	St. Francis, Ark.	St. Francis	9	135
Nashville, Tenn.	Cumberland	8	105	St. Francis Lake Lock, Ark.	.....	9	135
Natchez, Miss.	Mississippi	9	130	St. John, Calif.	Stony Creek	10	.....
Natrona, Pa.	Allegheny	6	83	St. Joseph, Mo.	Missouri	6	80
Nehalem City, Nebr.	Missouri	6	79	St. Louis, Mo.	Mississippi	6	72
Nellisville, Wis.	Black	5	61	St. Paul, Minn.	.....	6	67
Neuse, N. C.	Neuse	5	39	St. Thomas, Mo.	Osage	6	77
New Braunfels, Tex.	Guadalupe	9	.....	Salem, Oreg.	Willamette	10	159
Newburgh, Ind.	Ohio	8	.....	Salida, Colo.	Arkansas	8	.....
Newcomerstown, Ohio	Tuscarawas	7	87	Salisbury, Pa.	Kieldwinitas	6	82
New Harmony, Ind.	Wabash	7	103	Sapinero, Colo.	Gunnison	10	.....
New Madrid, Mo.	Mississippi	9	140	Savannah, Tenn.	Tennessee	8	106
New Orleans, La.	.....	8	123	Schenley, Pa.	Allegheny	6	83
Newport, Ark.	White	4	33	Selma, Ala.	Alabama	5	55
Newport, Pa.	Junata	4	33	Seward, Pa.	Conemaugh	6	82
New Richmond, Ohio	Ohio	8	113, 114	Seymour, Ind.	White—East Fork	7	100
New River, Tenn.	New	7	103	Sharon, Pa.	Shenango	7	.....
Newton, Ala.	Choctawhatchee	5	51	Sherburne, N. Y.	Chenango	4	31
Nicolaus, Calif.	Feather	10	154	Shoals, Ind.	White—East Fork	7	101
Noblesville, Ind.	White—West Fork	7	.....	Shreveport, La.	Red	9	133
North Platte, Nebr.	North Platte	6	73	Shubuta, Miss.	Chickasawhay	5	58
Do	South Platte	6	73	Sidney, Ohio	Miami	7	85
North Stratford, N. H.	Connecticut	4	27	Simpesport, Ia.	Atchafalaya	9	141
Oklahoma City, Okla.	North Canadian	8	126, 127	Riox City, Iowa	Missouri	6	79
Omaha, Nebr.	Missouri	6	79	Smithfield, N. C.	Neuse	5	39
Oneonta, N. Y.	Susquehanna	4	33	Smithville, Tex.	Colorado	9	145
Orange, Tex.	Sabine	9	142	South Charleston, W. Va.	Kanawha	7	.....
Oregon City, Oreg.	Willamette	10	159	South Newbury, Vt.	Connecticut	4	.....
Oroville, Calif.	Feather	10	154	Springbank, Ark.	Red	9	.....
Oscarola, Mo.	Osage	6	76	Springfield, Mass.	Connecticut	4	28
Oswego, Kans.	Neosho	8	125	Springfield, Ohio	Mad.	7	94
Ottumwa, Iowa	Les Moines	6	85	Sullivan, Mo.	Meramec	6	67
Owensboro, Ky.	Ohio	8	117	Summersville, W. Va.	Gauley	7	.....
Ozark, Ark.	Arkansas	9	129	Sunbury, Pa.	Susquehanna	4	34
Ozark Beach, Mo.	White	8	122	Sutersville, Pa.	Youghiogheny	7	85
Parkah, Ky.	Ohio	8	119	Swan Lake, Miss.	Talladatchie	9	136
Paintsville, Ky.	Levisa Fork	7	92	Tarboro, N. C.	Tar	5	39
Pacola, Colo.	Gunnison—North Fork	10	.....	Tell City, Ind.	Ohio	8	117
Parkersburg, W. Va.	Ohio	8	110	Terre Haute, Ind.	Wabash	7	102
Parkers Landing, Pa.	Allegheny	6	83	The Dalles, Oreg.	Columbia	10	.....
Parkin, Ark.	St. Francis	9	136	Three Rivers, Tex.	Neuse	9	148
Pearl River, Ia.	Pearl	5	60	Tiffin, Ohio	Sandusky	4	25
Pelzer, S. C.	Saluda	5	32	Tipp City, Ohio	Miami	7	85
Pemacook, N. H.	Contoocook	4	26	Topela, Kans.	Kansas	6	75
Peoria, Ill.	Illinois	6	86	Towanda, Pa.	Susquehanna	4	34
Perkins, Okla.	Ciarrcon	8	124	Tracy, Iowa	Des Moines	6	64
Perru, Ill.	Illinois	6	85	Trenton, Mo.	Thompson Fork	6	75
Petersburg, Ind.	White	7	101	Trenton, N. J.	Delaware	4	30
Phillippi, W. Va.	Tygart	7	84	Trides Hill, N. Y.	Mohawk	4	29
Pickwick Dam, Tenn.	Tennessee	8	108	Trinidad, Tex.	Trinity	9	143
Pierre, S. Dak.	Missouri	6	78	Trinidad, Wash.	Columbia	10	160
Pikeville, Ky.	Levisa Fork	7	91	Tulsa, Okla.	Arkansas	9	128
Pine Bluff, Ark.	Arkansas	9	130	Tuscaloosa, Ala.	Black Warrior	5	55
Piney Bluff, Ga.	Altamaha	5	47	Umatilla, Oreg.	Columbia	10	160
Piqua, Ohio	Miami	7	95	Union, Mo.	Bourleuse	6	66
Pittsburgh, Pa.	Ohio	8	108	Uniontown, Ky.	Ohio	6	118
Pleasant Hill, Ohio	Stillwater	7	94	Upper Sandusky, Ohio	Sandusky	4	24
Plymouth, N. H.	Pemigewasset	4	26	Valley Junction, Tex.	Brazos	9	145
Point Pleasant, W. Va.	Ohio	8	111	Valley Park, Mo.	Meramec	6	67
Poplar Bluff, Mo.	Black	8	121	Van Buren, Ark.	Arkansas	9	128
Portage, Wis.	Wisconsin	6	82	Vanceburg, Ky.	Ohio	8	.....
Port Jarvis, N. Y.	Delaware	4	30	Vancouver, Wash.	Columbia	10	161
Portland, Mich.	Grand	4	.....	Van Bator, Iowa	Raccoon	6	64
Portland, Oreg.	Willamette	10	159	Vicksburg, Miss.	Mississippi	9	136
Portsmouth, Ohio	Ohio	8	113	Victoria, Tex.	Guadalupe	9	147
Poston, S. C.	Pee Dee	5	.....	Vincennes, Ind.	Wabash	7	103
Prairie du Chien, Wis.	Mississippi	6	84	Wabash, Ind.	.....	7	102
Priest River, Idaho	Clark Fork	10	157	Waco, Tex.	Brazos	9	145
Prospect, Ohio	Srioto	7	92	Wagoner, Okla.	Neosho	8	125
Pueblo, Colo.	Arkansas	8	.....	Walpole, N. H.	Connecticut	4	28
Quincy, Ill.	Mississippi	6	71	Wamego, Kans.	Kansas	6	75
Radford, Va.	New	7	89	Wapello, Iowa	Iowa	6	63
Rainbow, Tex.	Brazos	9	144	Warren, Pa.	Allegheny	6	82
Ralston, Okla.	Arkansas	9	128	Warsaw, Mo.	Osage	6	77
Randolph, Va.	Roanoke	4	37	Washington, N. Dak.	Missouri	6	.....
Ransomwood, W. Va.	Ohio	8	110, 111	Washington, D. C.	Potomac	4	.....
Ravenna, Wm.	Schuykill	4	30	Washington (near), D. C.	Potomac	4	26
Red Bluff, Calif.	Mississippi	6	68	Washington, Tex.	Brazos	9	145
Red House, N. Y.	Sacramento	10	155	Waterloo, Oreg.	South Santiam	10	.....
Red River Landing, La.	Allegheny	8	.....	Waverly, Mo.	Missouri	6	80
	Mississippi	9	139	Wayne, W. Va.	Twelvepole Creek	7	91

MISSISSIPPI SYSTEM—OHIO BASIN—Continued

1944	January	February	March	April	May	June	July	August	September	October	November	December	1944	January	February	March	April	May	June	July	August	September	October	November	December	
WABASH RIVER AT WABASH, IND.													WABASH RIVER AT COVINGTON, IND.													
Wabash—Ohio													Wabash—Ohio													
[Flood stage, 12 feet]													[Elevation of gage zero, 473.97 feet, m.s.l. Flood stage, 16 feet]													
1...	(°)	2.6	^c 2.2	5.3	5.7	5.0	5.0	2.3	2.0	2.0	1.9	2.0	2.3	1...	^b 4.2	3.7	10.6	10.1	14.0	10.4	3.9	3.1	3.2	2.9	2.8	3.2
2...	2.6	^b 2.7	4.7	5.4	4.9	4.1	2.3	2.0	2.0	2.0	2.0	^c 2.2	2...	^b 4.2	4.0	8.9	9.2	11.4	10.0	3.9	3.1	3.4	2.9	2.9	3.1	
3...	2.6	^b 2.7	4.4	4.9	4.7	3.7	2.2	1.9	2.0	2.5	1.9	^c 2.2	3...	^b 4.0	3.9	7.5	8.2	10.7	9.4	3.7	3.0	3.2	3.0	2.8	3.1	
4...	2.6	^b 2.6	4.5	4.7	4.7	3.5	2.2	2.0	2.0	2.5	2.0	^c 2.2	4...	^b 4.0	3.9	6.9	7.8	10.3	8.2	3.6	3.0	3.1	3.6	2.9	3.1	
5...	2.6	^b 2.6	9.2	4.5	4.7	3.6	2.2	2.7	2.0	2.3	2.1	^c 2.3	5...	^b 4.2	3.8	9.3	7.4	9.9	7.6	3.7	3.0	3.1	3.7	2.9	3.2	
6...	2.7	2.6	8.5	4.4	5.0	3.4	2.2	2.1	2.0	2.5	2.0	^b 2.3	6...	^b 4.1	3.9	11.0	7.0	9.4	6.9	3.6	3.0	3.0	3.9	2.8	3.2	
7...	2.6	2.6	11.6	4.3	4.9	3.2	2.2	2.0	2.0	2.5	2.1	^b 2.3	7...	^b 4.2	3.8	13.2	6.8	9.2	6.6	3.5	2.9	2.9	3.6	2.9	3.1	
8...	2.6	2.6	11.6	4.3	4.7	3.1	2.2	2.3	1.9	2.4	2.1	^b 2.3	8...	^b 4.1	3.6	14.5	6.8	9.0	6.2	3.5	3.1	2.9	3.4	3.0	3.3	
9...	2.6	^b 2.5	9.8	4.5	³ 10.1	3.0	2.2	2.4	2.0	2.4	2.3	2.3	9...	^b 3.9	3.8	15.6	6.6	9.8	5.9	3.6	3.1	2.8	3.3	3.0	3.2	
10...	2.6	2.5	7.4	12.4	12.9	3.0	2.1	2.9	1.9	2.2	2.4	2.3	10...	^b 3.8	3.8	14.3	7.4	13.6	5.5	3.6	3.0	2.8	3.2	3.0	3.1	
11...	2.6	^c 2.1	7.6	17.3	9.9	2.9	2.1	2.6	1.9	2.2	2.4	^b 2.3	11...	^b 3.8	^c 3.8	11.5	14.6	16.7	5.7	3.4	2.9	2.8	3.2	3.2	3.2	
12...	2.5	^c 2.6	6.4	20.5	7.6	2.9	2.1	2.4	1.9	2.1	2.4	^c 2.4	12...	^b 3.9	^c 3.2	9.8	19.0	¹⁰ 17.8	5.7	3.5	2.9	2.8	3.1	3.2	3.2	
13...	2.5	^c 2.6	6.1	19.8	6.2	2.8	2.1	2.2	2.0	2.1	3.2	^c 2.4	13...	^b 3.9	^c 4.0	9.2	23.1	16.9	5.7	3.4	2.9	2.8	3.0	3.2	3.2	
14...	2.5	^c 2.6	6.1	19.2	5.3	2.8	2.1	2.1	2.0	2.0	2.4	^c 2.4	14...	^b 3.9	^c 3.9	8.6	⁹ 26.0	13.8	6.3	3.6	3.0	2.8	3.0	3.2	³ 3.1	
15...	2.5	^c 2.6	6.7	16.4	4.8	2.8	2.0	2.0	1.9	2.0	4.9	^c 2.4	15...	^b 3.8	^c 3.9	8.6	26.1	11.4	7.0	3.4	3.0	2.9	3.0	3.2	³ 3.1	
16...	2.5	^c 2.6	6.5	14.8	4.4	2.8	2.0	3.1	1.9	2.0	3.6	^c 2.4	16...	^b 4.0	^c 3.8	8.8	25.1	10.0	6.4	3.5	2.9	2.9	3.1	3.4	³ 3.3	
17...	2.5	^c 2.5	8.0	12.2	4.7	2.7	2.0	2.7	1.9	2.0	2.8	^c 2.4	17...	^b 4.0	^c 3.9	10.4	23.6	9.7	5.9	3.4	3.3	2.9	3.0	3.8	³ 3.4	
18...	2.5	^c 2.5	7.8	9.8	5.2	2.9	2.0	2.4	1.9	2.0	2.6	^c 2.4	18...	^b 4.1	^c 4.0	11.7	22.2	9.5	5.5	3.5	3.5	2.9	2.9	4.1	³ 3.4	
19...	.....	^c 2.5	6.5	8.3	4.5	2.9	2.3	2.4	1.9	2.0	2.6	^c 2.2	19...	^b 4.0	^c 4.2	12.4	20.5	11.4	5.2	3.3	3.2	2.8	2.8	3.9	³ 3.4
20...	2.6	^c 2.6	5.8	7.1	4.4	2.8	2.1	2.3	1.9	1.9	2.4	^c 2.2	20...	^b 4.0	^c 4.1	11.9	19.1	12.4	5.1	3.3	3.1	2.8	2.9	3.5	³ 3.3	
21...	2.6	^c 2.5	5.2	6.3	4.4	2.7	2.1	2.6	1.8	2.0	2.6	^c 2.3	21...	^b 4.1	^c 4.0	10.4	16.8	10.5	5.1	3.2	3.0	2.8	2.9	3.4	³ 3.4	
22...	2.6	^c 2.9	4.8	6.4	5.2	2.6	2.0	2.5	1.8	2.0	2.5	^c 2.3	22...	^b 4.1	^c 4.1	9.2	14.5	10.4	4.8	3.2	3.0	2.8	2.8	3.6	³ 3.4	
23...	2.6	7.6	4.8	² 12.4	4.6	2.6	2.0	2.3	1.8	1.9	2.5	^c 2.3	23...	^b 4.1	5.0	8.4	16.5	11.0	4.6	3.2	2.9	2.8	2.9	3.4	³ 3.4	
24...	2.6	8.6	5.7	16.6	4.2	2.6	2.0	2.2	1.8	1.9	2.5	^c 2.3	24...	^b 4.1	7.0	7.9	18.5	11.5	4.7	3.1	3.0	2.8	2.9	3.4	³ 3.4	
25...	2.6	7.0	6.9	14.8	4.9	2.5	2.0	2.1	1.8	1.9	³ 5.6	^c 2.3	25...	^b 4.0	10.6	7.9	20.2	10.8	4.6	3.1	3.1	2.7	3.0	3.3	³ 3.6	
26...	2.6	9.0	6.2	11.4	5.1	2.4	2.0	2.0	1.9	2.0	2.4	^c 2.3	26...	3.6	11.1	8.4	²² 22.1	11.6	4.4	3.1	3.0	2.7	3.0	3.4	³ 3.6	
27...	2.7	10.1	6.7	9.3	4.2	2.4	2.0	2.0	1.9	1.9	2.4	^c 2.3	27...	3.6	11.7	9.0	22.2	13.2	4.2	3.3	3.0	2.7	2.8	3.3	³ 3.6	
28...	2.7	8.0	7.0	7.6	7.3	2.4	2.1	2.2	1.9	2.0	2.4	^c 2.3	28...	3.6	13.8	9.3	20.5	12.4	4.1	3.3	3.0	2.7	2.9	3.3	³ 3.6	
29...	2.7	6.5	6.7	6.2	6.3	2.4	2.0	2.1	1.9	2.0	2.4	^c 2.3	29...	3.5	12.8	10.2	18.9	12.0	4.1	3.4	3.0	2.8	2.9	3.4	³ 3.6	
30...	2.7	.....	7.2	5.5	.....	2.4	2.0	2.1	1.9	2.0	2.3	^c 2.3	30...	3.8	.....	10.3	15.8	12.0	4.0	3.2	3.1	2.8	2.8	3.4	³ 3.6
31...	2.7	.....	6.4	.....	5.4	.....	2.0	2.1	.....	2.0	.....	^c 2.3	31...	3.8	.....	10.6	.....	11.3	.....	3.2	3.2	.....	2.9	.....	³ 3.5
M'n..	.....	5.0	6.8	9.9	5.7	3.0	2.1	2.3	1.9	2.1	2.5	.....	M'n..	3.9	6.5	10.2	16.1	11.7	6.0	3.4	3.0	2.9	3.1	3.3	3.3
WABASH RIVER AT LAFAYETTE, IND.													WABASH RIVER AT TERRE HAUTE, IND.													
Wabash—Ohio													Wabash—Ohio													
[Elevation of gage zero, 504.14 feet, m.s.l. Flood stage, 11 feet]													[Elevation of gage zero, 446.78 feet, m.s.l. Flood stage, 14 feet]													
1...	^c 2.1	2.3	6.8	6.7	7.6	6.2	2.0	1.3	1.7	1.2	1.3	1.3	1...	1.4	1.7	10.4	8.2	16.5	11.4	2.3	1.3	1.4	0.8	0.8	1.1	
2...	^c 1.8	2.1	5.2	6.0	7.3	6.2	1.7	1.3	1.5	1.3	1.1	^c 1.4	2...	1.4	1.7	8.4	7.7	15.2	9.7	2.2	1.2	1.4	.....	.....	1.0
3...	^c 2.0	2.6	4.5	5.4	7.0	5.5	1.6	1.3	1.5	2.2	1.3	^c 1.2	3...	1.5	1.7	6.7	6.9	13.1	10.1	2.2	1.2	1.4	1.0	.....	1.0
4...	^c 2.0	2.2	4.7	5.0	6.7	4.7	1.8	1.3	1.4	2.4	1.3	1.5	4...	1.5	1.7	5.7	6.1	11.1	9.9	2.0	1.2	1.3	1.0	.....	.....
5...	^c 2.1	2.2	5.9	4.6	6.3	4.2	1.6	1.2	1.3	1.9	1.6	1.4	5...	1.4	1.7	10.1	5.7	9.9	7.5	2.0	1.1	1.0	1.2	.....	.....
6...	^c 2.1	2.1	9.4	4.4	6.1	4.0	1.6	1.1	1.2	1.9	1.3	1.5	6...	1.7	1.7	13.7	5.3	9.2	6.4	2.0	1.1	1.0	1.6	.....	1.0
7...	^c 1.9	2.3	10.4	4.3	6.0	3.4	1.6	1.4	1.1	1.8	1.2	1.7	7...	1.8	1.7	13.5	4.8	8.7	5.8	1.9	1.0	1.0	1.7	1.0	1.0	
8...	^c 1.8	2.2	13.1	4.2	5.8	3.4	1.7	1.3	1.1	1.7	1.3	1.3	8...	1.7	1.7	13.7	5.8	7.9	5.2	1.8	1.0	1.0	1.7	1.0	1.0	
9...	^c 1.6	2.2	12.4	4.1	6.9	3.1	1.7	1.1	1.1	1.6	1.4	1.5	9...	1.5	1.7	13.3	5.8	9.1	4.8	1.8	1.0	.....	1.3	1.0	1.1
10...	^c 1.5	2.1	9.1	5.3	⁷ 13.7	3.4	1.5	1.1	1.1	1.6	1.5	1.5	10...	1.6	1.7	11.9	7.2	12.5	4.5	1.8	.....	.....	1.3	1.0	1.0
11...	^c 1.6	^c 1.7	7.3	14.8	15.1	3.3	1.6	1.1	1.1	1.3	1.6	1.7	11...	1.4	1.6	10.9	12.1	13.7	4.1	1.8	.....	.....	1.1	.....	1.0
12...	^c 1.5	^c 1.5	6.4	20.6	12.9	3.2	1.6	1.1	1.1	1.4	1.6	1.5	12...	1.4	1.7	10.0	15.8	14.0	4.1	1.8	.....	.....	1.1	1.0	1.0
13...	^c 1.6	^c 1.8	5.8	²² 22.6	9.8	3.4	1.7	1.4	1.2	1.4	1.5	1.6	13...	1.4	1.5	8.3	17.5	14.3	4.3	1.7	.....	.....	1.0	1.0	1.0
14...	^c 1.6	^c 1.9	5.9	22.5	8.0	3.9	1.5	1.1	1.3	1.4	1.6	^c 1.2	14...	^c 1.4	^c 1.4	7.6	19.0	14.4	4.1	1.7	1.2	.....	1.0	1.1	1.0
15...	^c 1.7	^c 2.1	5.9	21.1	6.8	3.3	1.5	1.1	1.3	1.4	1.7	^c 1.2	15...	^c 1.4	^c 1.4	7.1	20.8	13.5	4.6	1.7						

W. B. No. 1474

UNITED STATES DEPARTMENT OF COMMERCE

W. AVERELL HARRIMAN, *Secretary*

WEATHER BUREAU

F. W. REICHELDERFER, *Chief*

DAILY RIVER STAGES

AT RIVER GAGE STATIONS ON THE
PRINCIPAL RIVERS OF THE
UNITED STATES

REFERENCE
DO NOT CIRCULATE

Volume XLI

1945

Community Affairs File



UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON

DAILY RIVER STAGES—1945

INTRODUCTION

This volume, containing the daily river stages for 1945, is the forty-first of a series of Daily River Stages on the Principal Rivers of the United States, the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

- Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.
- II. Stages of the Mississippi River and of its Principal Tributaries, except the Ohio River, 1880 to 1889.
- III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.

DAILY RIVER STAGES AT RIVER GAGE STATIONS ON THE PRINCIPAL RIVERS OF THE UNITED STATES

Volume IV. 1890 to 1892.	Volume XIV. 1916.	Volume XXIV. 1926.	Volume XXXIV. 1936.
V. 1893 to 1895.	XV. 1917.	XXV. 1927.	XXXV. 1937.
VI. 1896 to 1899.	XVI. 1918.	XXVI. 1928.	XXXVI. 1938.
VII. 1900 to 1904.	XVII. 1919.	XXVII. 1929.	XXXVII. 1939.
VIII. 1905 and 1906.	XVIII. 1920.	XXVIII. 1930.	XXXVIII. 1940 and 1941.
IX. 1907 and 1908.	XIX. 1921.	XXIX. 1931.	XXXIX. 1942 and 1943.
X. 1909 and 1910.	XX. 1922.	XXX. 1932.	XL. 1944.
XI. 1911 and 1912.	XXI. 1923.	XXXI. 1933.	
XII. 1913 and 1914.	XXII. 1924.	XXXII. 1934.	
XIII. 1915.	XXIII. 1925.	XXXIII. 1935.	

Volumes XXXIII to XLI can be bought from the Superintendent of Documents, Washington, D. C.; other volumes are out of print and cannot be supplied.

The river stages are the vertical distances, in feet and tenths, of the water surface above or below the zero of the gage. The zero has, as a rule, been set at or near the lowest known water.

Gage readings are usually made at 8 a.m., seventy-fifth meridian time, east of the Continental Divide, and at 7 a.m., local time, west of the divide.

Extreme stages for a month, or important crest stages, not observed at the regular time for reading the gage, are printed as a note at the foot of the table or page. This practice was begun in 1907.

In some cases the zero planes of gages have been changed, either through accident or through necessary removals. The stations at which changes have occurred are given in a table headed "Corrigenda," and the corrections required to reduce previous readings to the zero now in use are also given in the table if they have not been previously published.

The country is divided into districts, and each district has a designated center at which the administrative and forecasting work is carried on. The following table shows the centers and their districts.

ADMINISTRATIVE AND FORECASTING CENTERS AND THEIR DISTRICTS

Albany, N. Y.....	Hudson River and tributaries.
Albuquerque, N. Mex.....	Pecos River in New Mexico; Rio Grande and tributaries at and above Elephant Butte Reservoir Dam, N. Mex.; Canadian River and tributaries in New Mexico; and the San Juan River and tributaries.
Allentown, Pa.....	Lackawaxen River and the Lehigh River above but not including Easton, Pa.
Asheville, N. C.....	French Broad River and tributaries above North Carolina-Tennessee State line.
Atlanta, Ga.....	Apalachicola, Altamaha, St. Marys, and Satilla Rivers and tributaries.
Augusta, Ga.....	Savannah and Ogeechee Rivers and tributaries.
Austin, Tex.....	Colorado River (of Texas) and tributaries.
Bakersfield, Calif.....	Kern River and tributaries; Buena Vista Lake drainage and Poso Creek.
Billings, Mont.....	Yellowstone River and tributaries.
Binghamton, N. Y.....	Susquehanna River and tributaries above Towanda, Pa.
Bismarck, N. Dak.....	Missouri River and tributaries from and including Fort Peck Dam to and including Bismarck, N. Dak., except the Milk and Yellowstone.
Boise, Idaho.....	Snake River and tributaries above and including Lewiston, Idaho.
Brownsville, Tex.....	Rio Grande below Laredo, Tex.

- Burbank, Calif.....California Coast drainage south of Point Buchon; the Salton Sea basin; Great Basin in California, south of and including Mono Lake drainage.
- Burlington, Iowa.....Mississippi River and tributaries, except the Des Moines above Eldon, Iowa, from and including Dam No. 18 and its upstream gage to but not including Dam No. 24.
- Cairo, Ill.....Ohio River below Dam No. 50 at Fords Ferry, Ky.; Mississippi River from and including Cape Girardeau, Mo., to and including New Madrid, Mo.; Tennessee River and tributaries below Decatur, Ala.
- Charleston, S. C.....Rivers of Northeastern South Carolina.
- Chattanooga, Tenn.....Tennessee River and tributaries from below Knoxville, Tenn., to and including Decatur, Ala.
- Cincinnati, Ohio.....Ohio River and tributaries, except the Scioto River, from below Dam No. 30 to and including the mouth of the Kentucky River.
- Columbia, S. C.....Santee River and tributaries.
- Columbus, Ohio.....Sandusky and Scioto Rivers.
- Concord, N. H.....Merrimack River and tributaries.
- Dallas, Tex.....Trinity River and tributaries above Long Lake, Tex.
- Davenport, Iowa.....Mississippi River and tributaries from and including Dam No. 10 to but not including Dam No. 18.
- Del Rio, Tex.....The Rio Grande and tributaries from but not including the Pecos River to and including Laredo, Tex.
- Denver, Colo.....North Platte and South Platte Rivers and tributaries at and above North Platte, Nebr.
- Des Moines, Iowa.....Des Moines River and tributaries above Eldon, Iowa.
- Elkins, W. Va.....Tygart River and tributaries at and above the Tygart River Dam, W. Va.
- El Paso, Tex.....The Rio Grande and tributaries from below Elephant Butte Reservoir Dam, N. Mex., to and including the mouth of the Pecos River; the Pecos River in Texas.
- Eureka, Calif.....California Coast drainage from Point Delgada northward to but not including the Klamath River.
- Evansville, Ind.....Ohio River and tributaries, except the Wabash River, from below Hawesville, Ky., to and including Dam No. 50 at Fords Ferry, Ky.
- Fargo, N. Dak.....Red River of the North and tributaries below the Canadian line.
- Fort Wayne, Ind.....Maumee River and tributaries.
- Fresno, Calif.....San Joaquin River and tributaries above the mouth of the Tuolumne River.
- Grand Junction, Colo.....Colorado River and tributaries above but not including the mouth of the San Juan.
- Grand Rapids, Mich.....Grand River and tributaries below Grand Ledge, Mich.
- Harrisburg, Pa.....Susquehanna River and tributaries at and below Towanda, Pa.
- Hartford, Conn.....Connecticut River and tributaries.
- Helena, Mont.....Missouri River and tributaries above Fort Peck Dam; Milk River.
- Houston, Tex.....Neches and Brazos Rivers; Trinity River at and below Long Lake, Tex.
- Huntington, W. Va.....Ohio River and tributaries from below Dam No. 23 to and including Dam No. 30, Greenup, Ky.
- Indianapolis, Ind.....Wabash River and tributaries.
- Kansas City, Mo.....Missouri River and tributaries, except the Kansas River at and above Lawrence, Kans., from the mouth of the Platte River to and including Lexington, Mo.
- Knoxville, Tenn.....Tennessee River and tributaries at and above Knoxville, Tenn., except French Broad River and tributaries above North Carolina-Tennessee State line.
- La Crosse, Wis.....Mississippi River and tributaries from and including Dam No. 2 to and including Dam No. 10; Lake Superior drainage from but not including St. Louis River eastward to Wisconsin-Michigan State line (including Montreal River), and Lake Michigan drainage from and including Menominee River southward to Wisconsin-Illinois State line.
- Lake Charles, La.....Sabine, Calcasieu, Mermentau, and Vermillion Rivers.
- Lansing, Mich.....Grand River and tributaries at and above Grand Ledge, Mich.; Saginaw River and tributaries.
- Little Rock, Ark.....Arkansas River and tributaries below Van Buren, Ark.; White River and tributaries; Ouachita River and tributaries in Arkansas.
- Louisville, Ky.....Ohio River and tributaries from below the mouth of the Kentucky to and including Hawesville, Ky.
- Lynchburg, Va.....James River and tributaries above Columbia, Va.
- Medford, Oreg.....Oregon and California Coast drainage, from and including Umpqua River basin, southward to and including Klamath River and tributaries; the Great Basin in Oregon, except the Quinn River.
- Memphis, Tenn.....Mississippi River from below New Madrid, Mo., to the mouth of the White River; St. Francis River and tributaries.
- Meridian, Miss.....Pascagoula and Pearl Rivers and tributaries.
- Minneapolis, Minn.....Mississippi River and tributaries above but not including Dam No. 2.
- Mobile, Ala.....Tombigbee River and tributaries.
- Montgomery, Ala.....Alabama River and tributaries.
- Nashville, Tenn.....Cumberland River and tributaries.
- New Orleans, La.....Mississippi River below Natchez, Miss.; Red River below Alexandria, La.; Ouachita and Black Rivers and tributaries in Louisiana; Atchafalaya River.
- Norfolk, Nebr.....Elkhorn River and tributaries; Omaha Creek.
- Oklahoma City, Okla.....Canadian River and tributaries east of the eastern boundary of New Mexico.
- Omaha, Nebr.....Missouri River and tributaries from below Sioux City, Iowa, to and including the mouth of the Platte, except the North Platte and the South Platte at and above North Platte, Nebr.
- Parkersburg, W. Va.....Ohio River and tributaries from below Dam No. 13 to and including Dam No. 23, near Apple Grove, Ohio.
- Pensacola, Fla.....Escambia and Choctawhatchee Rivers and tributaries.
- Philadelphia, Pa.....Delaware River and tributaries, except the Lackawaxen, the Lehigh above Easton, Pa., and the Schuylkill above Perkiomen Creek.
- Phoenix, Ariz.....Gila River and tributaries at and above Gila Bend, Ariz., and the Colorado River and tributaries from but not including the San Juan to but not including the mouth of the Virgin River.
- Pittsburgh, Pa.....Ohio River and tributaries at and above Dam No. 13, except the Tygart River at and above Tygart River Dam, W. Va.
- Portland, Maine.....Rivers in Maine.
- Portland, Oreg.....Columbia River and tributaries below Grand Coulee Dam, except the Snake River at and above Lewiston, Idaho; Oregon Coast drainage north of the Umpqua River basin.
- Pueblo, Colo.....Arkansas River and tributaries in Colorado.

Raleigh, N. C.....The rivers and their tributaries that enter the Atlantic Ocean on the North Carolina coast.
Reading, Pa.....Schuylkill River and tributaries above Perkiomen Creek.
Richmond, Va.....James River and tributaries at and below Columbia, Va.
Sacramento, Calif.....Rivers in the central valleys of California, except the San Joaquin River above the mouth of the Tuolumne River.
St. Louis, Mo.....Mississippi River and tributaries from and including Dam No. 24 and its upstream gage to but not including Cape Girardeau, Mo., except the Osage River in Kansas and the Missouri River at and above Lexington, Mo.
Salt Lake City, Utah.....Great Salt Lake basin.
San Antonio, Tex.....Guadalupe, Nueces, and the San Antonio Rivers and tributaries.
San Francisco, Calif.....California Coast drainage, except rivers in the Central Valley of California, from Point Delgada to Point Buchon.
Seattle, Wash.....Puget Sound and Washington Coast drainage, except the Columbia River.
Shreveport, La.....Red River and tributaries at and above Alexandria, La.
Sioux City, Iowa.....Missouri River and tributaries from below Bismarck, N. Dak., to and including Sioux City, Iowa.
Spokane, Wash.....Columbia River and tributaries above and including Grand Coulee Dam.
Topeka, Kans.....Kansas River and tributaries at and above Lawrence, Kans., Osage River and tributaries in Kansas.
Tulsa, Okla.....Arkansas River and tributaries, except the Canadian River, from the Kansas-Colorado line to and including Van Buren, Ark.
Vicksburg, Miss.....Mississippi River from the mouth of the White River to and including Natchez, Miss.; Yazoo and Big Black Rivers and tributaries.
Washington, D. C.....Potomac and Rappahannock Rivers and tributaries.
Yuma, Ariz.....Colorado River and tributaries from and including the mouth of the Virgin River to the Arizona-Mexico border, and the Gila River below Gila Bend, Ariz.

RIVER STATIONS AND MISCELLANEOUS INFORMATION

River stations, arranged by drainage areas, and miscellaneous information pertaining thereto—Continued

Station	River	Length of record ¹	Elevation of gage zero above mean sea level ²	Distance of gage above mouth of river ³	Drainage area above gage ⁴	Flood stage	Extreme stages from gage readings ⁵			
							Highest	Date	Lowest	Date
MISSISSIPPI SYSTEM—Continued										
Ohio Basin—Continued										
		Years	Feet	Miles	Sq. miles	Feet	Feet		Feet	
Seymour, Ind.....	East Fork.....	23	550.67	187.6	2,292	14	19.5	Jan. 16, 1937	.3	Aug. 22, 1936
Williams, Ind.....	do.....	25	472.56	79.2	4,584	10	25.0	Jan. 25, 1937	-2.0	Jan. 1, 1931
Shoals, Ind.....	do.....	38	442.21	56.0	4,828	25	42.2	Mar. 28, 1913	1.2	Aug. 24, 1936
Petersburg, Ind.....	White.....	11	400.00	47.8	11,100	16	28.1	Jan. 21, 1937	.0	Aug. 26, 1936
Hazleton, Ind.....	do.....	22	383.26	18.9	11,200	16	31.6	Jan. 22, 1937	.5	Sept. 30, 1941
Bluffton, Ind.....	Wabash.....	35	793.01	421.8	555	10	20.0	Mar. 26, 1913	.2	July 26, 1934
Wabash, Ind.....	do.....	23	642.66	.....	1,740	12	24.8	May 18, 1943	1.7	Aug. 9, 1934
Peru, Ind.....	do.....	1	622.73	378.0	2,690	20	.....	.....	.....	.....
Lafayette, Ind.....	do.....	28	573.38	343.2	3,980	17	25.3	Mar. 26, 1913	2.2	Dec. 4, 1914
La Fayette, Ind.....	do.....	32	504.14	301.4	7,324	11	28.4	May 19, 1943	.5	July 26, 1936
Covington, Ind.....	do.....	19	473.97	260.5	8,399	16	32.4	May 20, 1943	1.2	Oct. 5, 1928
Terre Haute, Ind.....	do.....	47	445.78	204.4	12,333	14	31.3	Mar. 27, 1913	-2.0	Feb. 6, 1922
Vincennes, Ind.....	do.....	29	396.43	117.2	13,940	14	27.0	May 22, 1943	-8	June 22, 1934
Mount Carmel, Ill.....	do.....	62	371.46	83.9	28,506	17	31.0	Mar. 30, 1913	-2	Oct. 9, 1940
New Harmony, Ind.....	do.....	12	353.26	44.0	29,160	15	24.4	Jan. 30, 1937	-2	Sept. 30, 1941
New River, Tenn.....	New.....	38	1,092.67	8.0	393	18	41.2	Mar. 23, 1929	.....	.....
Rock Island, Tenn.....	Cane Fork.....	35	847.41	90.3	1,656	30	40.6	.....	.0	Dec. 6, 1944
Williamsburg, Ky.....	Cumberland.....	38	892.40	592.7	1,673	19	30.4	Mar. 25, 1929	-2.5	Sept. 16, 1919
Burnside, Ky.....	do.....	61	585.23	518.4	4,949	50	69.4	Mar. 24, 1929	-1.6	Nov. 9, 1936
Celina, Tenn.....	do.....	42	489.47	383.1	7,323	28	57.11	Dec. 29, 1926	-2	Oct. 5, 1911
Carthage, Tenn.....	do.....	61	437.67	308.4	10,754	40	58.7	Dec. 30, 1926	-4	Nov. 19, 1902
Nashville, Tenn.....	do.....	72	368.17	182.6	12,878	40	56.2	Jan. 1, 1927	-1	Sept. 14, 1937
Clarksville, Tenn.....	do.....	45	330.63	127.0	14,504	46	65.55	Jan. 25, 1937	-1.0	Sept. 18, 1913
Lock F, Eddyville, Ky.....	do.....	28	289.61	43.6	17,500	50	76.9	Jan. 26, 1937	-7	Oct. 14, 1894
Mendota, Va.....	North Fork.....	40	1,330.56	38.3	530	8	17.5	June 14, 1907	.3	Oct. 13, 1933
Elizabethton, Tenn.....	Watauga.....	36	1,486.23	24.4	695	14	20.9	Aug. 14, 1940	1.0	Sept. 27, 1937
Stuff City, Tenn.....	South Fork.....	46	1,368.35	34.2	810	12	15.0	May 22, 1901	-2	Dec. 1, 1903
Ebbreville, Tenn.....	Molichucky.....	26	1,519.30	77.0	804	8	.....	Aug. 16, 1928	.5	Jan. 3, 1940
Hosman, N. C.....	French Broad.....	10	.....	211.3	69	8	.....	.....	.....	.....
Asheville, N. C.....	do.....	43	1,959.9	147.3	949	6	25.6	July 16, 1916	.0	Nov. 1, 1904
Hot Springs, N. C.....	do.....	12	1,311.56	.....	1,570	8	16.1	Aug. 30, 1940	.....	.....
Knoxville, Tenn.....	Tennessee.....	63	797.36	651.3	8,934	20	36.1	Mar. 1, 1902	-1.9	Sept. 10, 1925
Chattanooga, Tenn.....	do.....	72	621.12	464.1	21,360	30	52.1	Apr. 3, 1886	.0	Sept. 11, 1881
Florence, Ala.....	do.....	75	401.12	256.5	30,662	18	32.5	Mar. 19, 1897	-3.0	Oct. 8, 1925
Pickwick Dam, Tenn.....	do.....	8	342.20	206.7	32,820	43	51.6	Apr. 7, 1936	.....	.....
Savannah, Tenn.....	do.....	35	341.61	189.5	33,008	39	51.1	Jan. 2, 1927	-2.8	Sept. 8, 1925
Kentucky Dam, Ky.....	do.....	1	289.00	22.24	.....	27	49.4	Mar. 10, 1945	11.0	Oct. 18, 1945
Pittsburgh, Pa.....	Ohio.....	74	694.00	981.0	19,401	25	46.0	Mar. 18, 1936	1.9	Sept. 25, 1881
Coraopolis, Pa.....	do.....	39	683.43	971.8	19,474	26	43.6	.....	.5	Dec. 18, 1914
Dam No. 6 Beaver, Pa.....	do.....	53	655.4	951.7	22,754	30	55.5	Mar. 19, 1936	.1	Sept. 6, 1894
Dam No. 7, Midland, Pa.....	do.....	34	647.2	944.5	22,952	30	53.7	.....	.....	.....
Dam No. 12, near Wheeling, W. Va.....	do.....	35	610.8	893.6	24,614	36	55.2	.....	2.7	Aug. 19, 1922
Dam No. 13, near Wheeling, W. Va.....	do.....	45	602.8	884.9	25,139	45	57.9	.....	2.2	Oct. 15, 1916
Marietta, Ohio:										
Lower gage (Muskingum).....	do.....	32	567.12	809.0	35,375	35	55.0	Jan. 26, 1937	7.0	Feb. 3, 1896
Parkersburg, W. Va.....	do.....	58	561.87	796.4	37,914	38	58.9	Mar. 29, 1913	.3	Sept. 10, 1894
Dam No. 19, Little Hocking, Ohio.....	do.....	29	555.3	788.8	38,053	40	58.0	Jan. 26, 1937	2.7	Nov. 13, 1916
Dam No. 20, near Belleville, W. Va.....	do.....	29	549.1	778.5	39,342	45	58.6	Jan. 27, 1937	1.3	Aug. 23, 1918
Dam No. 22, Ravenswood, W. Va.....	do.....	31	536.0	760.1	39,643	44	62.6	.....	.2	Sept. 15, 1918
Dam No. 25, near Addison, Ohio.....	do.....	18	512.1	720.3	40,374	43	66.9	.....	5.2	Feb. 26, 1934
Point Pleasant, W. Va.....	do.....	57	514.12	715.8	40,621	40	62.8	Mar. 30, 1913	.0	Aug. 1, 1911
Gallipolis Dam, Hogsett, W. Va.:										
Upper gage.....	do.....	9	520.0	701.8	53,300	35	52.6	Jan. 27, 1937	.....	.....
Lower gage.....	do.....	9	503.0	701.8	53,300	50	69.6	.....	.....	.....
Dam No. 28, Huntington, W. Va.....	do.....	32	490.26	689.4	55,956	50	69.43	.....	2.8	Oct. 10, 1914
Dam No. 29, Ashland, Ky.....	do.....	29	483.1	661.1	60,748	51	73.6	.....	1.4	Oct. 27, 1922
Dam No. 30, near Greempup, Ky.....	do.....	26	475.1	641.6	61,702	52	74.7	.....	2.6	Oct. 21, 1920
Portsmouth, Ohio.....	do.....	59	470.9	625.0	62,495	50	74.23	.....	.9	Do.....
Dam No. 32, near Vanceburg, Ky.....	do.....	27	460.1	598.4	69,495	53	75.5	.....	3.2	Oct. 22, 1920
Dam No. 33, near Mayesville, Ky.....	do.....	22	452.6	575.9	70,128	50	75.34	.....	2.8	Nov. 7, 1924
Dam No. 36, New Richmond, Ohio.....	do.....	25	440.0	530.0	71,032	48	75.1	Jan. 26, 1937	2.1	Nov. 10, 1924
Dam No. 36, near Brent, Ky.....	do.....	20	433.6	520.1	71,166	52	79.8	.....	2.5	Oct. 30, 1927
Cincinnati, Ohio.....	do.....	88	428.80	509.8	76,578	52	80.0	.....	1.9	Sept. 17, 1881
Dam No. 37, Fernbank, Ohio.....	do.....	32	425.3	497.8	76,783	50	78.8	Jan. 25, 1937	2.8	Aug. 13, 1911
Dam No. 38, near Grant, Ky.....	do.....	21	417.9	477.7	82,808	51	78.6	Jan. 26, 1937	5.2	Sept. 1, 1925
Dam No. 39, Markland, Ind.....	do.....	30	410.6	449.3	83,170	48	73.5	.....	.9	Sept. 4, 1925
Dam No. 41, Louisville, Ky.:										
Upper gage.....	do.....	74	403.0	374.2	91,173	28	57.15	Jan. 27, 1937	4.8	Jan. 10, 1926
Lower gage.....	do.....	74	374.00	374.0	91,173	55	85.4	.....	5.1	July 30, 1925
Dam No. 43, Evans Landing, Ind.....	do.....	23	366.1	347.8	94,483	57	87.0	.....	1.3	Sept. 12, 1925
Dam No. 44, Leavenworth, Ind.....	do.....	20	357.1	317.8	95,702	53	84.2	.....	.5	Sept. 11, 1925
Dam No. 45, Addison, Ky.....	do.....	18	349.6	278.0	96,369	47	68.9	Jan. 28, 1937	2.8	Nov. 4, 1927
Tell City, Ind.....	do.....	7	347.62	254.0	96,750	38	55.95	.....	.....	.....
Dam No. 46, Owensboro, Ky.....	do.....	23	339.1	223.7	97,270	41	54.8	Jan. 29, 1937	-2	July 28, 1926
Dam No. 47, Newburgh, Ind.....	do.....	23	330.6	203.3	97,787	38	55.6	Jan. 31, 1937	4.1	Oct. 18, 1929
Ryanville, Ind.....	do.....	53	328.70	188.7	107,052	42	53.75	.....	-3	Nov. 7, 1895
Dam No. 48, near Henderson, Ky.....	do.....	24	322.6	171.4	107,573	38	58.6	Feb. 1, 1937	1.5	Sept. 11, 1925
Mount Vernon, Ind.....	do.....	35	318.92	132.0	107,793	35	59.21	Feb. 1, 1937	-0.2	Nov. 26, 1895
Dam No. 49, Uniontown, Ky.....	do.....	22	312.1	136.0	107,953	37	64.4	.....	2.9	Sept. 9, 1925
Dam No. 50, Fords Ferry, Ky.....	do.....	22	301.1	104.2	143,112	34	68.3	Feb. 2, 1937	4.4	Sept. 11, 1925
Dam No. 51, Golconda, Ill.....	do.....	21	294.6	77.9	143,656	40	62.6	.....	3.8	Oct. 20, 1925
Peckah, Ky.....	do.....	72	286.26	46.6	208,713	39	60.6	.....	-7	Oct. 30, 1895
Dam No. 52, Brookport, Ill.....	do.....	22	283.3	42.1	208,789	37	62.3	.....	2.7	Sept. 12, 1925
Dam No. 53, near Mound City, Ill.....	do.....	22	273.1	18.4	209,194	42	64.0	.....	5.2	Oct. 24, 1939
Cairo, Ill.....	do.....	85	270.62	1.7	209,194	40	59.5	Feb. 3, 1937	-1.0	Dec. 24, 1871
White Basin										
Gilbert, Ark.....	Buffalo.....	22	545.08	55.0	840	30	42.0	Apr. 15, 1945	2.3	Aug. 11, 1936
Doniphan, Mo.....	Current.....	25	322.21	.....	2,040	12	34.0	Mar. 12, 1935	1.75	Aug. 4, 1934
Ieper, Mo.....	Black.....	25	424.66	250.0	957	11	20.0	May 14, 1933	1.2	July 17, 1941
Poplar Bluff, Mo.....	do.....	23	317.40	211.0	1,245	16	21.1	Mar. 12, 1935	1.6	Dec. 3-5, 1944
Black Rock, Ark.....	do.....	42	229.56	69.0	7,323	14	31.9	Aug. 21, 1915	.3	Sept. 29, 1932
Ozark Beach, Mo.....	White.....	23	.....	508.0	4,362	30	39.1	Apr. 16, 1945	-1.0	Sept. 22, 1937
Cotter, Ark.....	do.....	19	.....	403.0	6,115	21	40.9	Apr. 17, 1945	.8	Sept. 24, 1941
Calico Rock, Ark.....	do.....	42	317.44	360.0	9,973	19	51.9	Jan. 31, 1916	-5	Aug. 9, 1934
Batesville, Ark.....	do.....	42	301.0	11,064	23	43.4	Feb. 1, 1916	3.2	Aug. 31, 1936

See footnotes at end of table.

INDEX BY STATIONS

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Station	River	Miscellaneous data	Gage readings	Station	River	Miscellaneous data	Gage readings
Miles City, Mont.	Yellowstone	Page 6	Page 6	Red Bluff, Calif.	Sacramento	Page 10	Page 157
Milledgeville, Ga.	Oconee	5	47	Red House, N. Y.	Allegheny	7	.....
Millers Ferry, Ala.	Alabama	5	55	Red River Landing, La.	Mississippi	9	140
Millstead, Ala.	Tallapoosa	5	54	Red Wing, Minn.	Mississippi	6	68
Mineral Wells, Tex.	Brazos	10	.....	Renovo, Pa.	Susquehanna—West Branch	4	32
Minneapolis, Minn.	Mississippi	6	68	Ressaca, Ga.	Oostanaula	5	52
Moline, Ill.	Rock	6	63	Reserve, La.	Mississippi	9	141
Monmouth, N. C.	Hav.	5	40	Richmond, Tex.	Brazos	10	147
Monroe, La.	Canchita	9	132	Richmond, Va.	James	4	37
Montague City, Mass.	Connecticut	4	.....	Risint, S. C.	Santee	5	44
Montezuma, Ga.	Flint	5	50	Ringo Crossing, Tex.	Sulphur	9	.....
Montgomery, Ala.	Alabama	5	55	Rio Grande City, Tex.	Rio Grande	10	151
Monticello, Wisc.	Pearl	5	59	Rio Vista, Calif.	Sacramento	10	158
Moorhead, Minn.	Red of North	4	22	Riparia, Wash.	Snake	10	.....
Morgan City, La.	Atchafalaya	4	22	River Falls, Ala.	Conecuh	5	52
Morgantown, W. Va.	Monongahela	7	142	Riverside, Tex.	Trinity	10	145
Morrilton, Ark.	Arkansas	9	131	Riverston, Va.	Shenandoah	4	35
Morris, Ill.	Illinois	6	65	Rock Island, Tenn.	Henry Fork	8	106
Mosgrove, Pa.	Allegheny	7	94	Rockland, Tex.	Neches	10	143
Mound City, Ill.	Ohio	8	.....	Rockwall, Tex.	Trinity—East Fork	10	144
Mount Carmel, Ill.	Wabash	8	.....	Rocky Mount, N. C.	Tar	5	38
Mount Vernon, Ga.	Oconee	5	47	Rome, Ga.	Oostanaula	5	53
Mount Vernon, Ind.	Ohio	8	120	Rosser, N. C.	French Broad	8	.....
Mud, Tex.	Colorado	10	.....	Russey, Ky.	Green	7	100
Murfreesville, Ky.	Green	7	100	Sacramento, Calif.	Sacramento	10	158
Muscatine, Iowa	Mississippi	6	71	Saginaw, Mich.	Saginaw	4	23
Naples, Tex.	Sulphur	9	133	Saginaw, Oreg.	Willamette—Coast Fork	10	.....
Nashua, N. H.	Merriam	4	26	St. Charles, Mo.	Missouri	7	82
Nashville, Tenn.	Cumberland	8	107	St. Francis, Ark.	St. Francis	9	136
Natchez, Miss.	Mississippi	9	142	St. Francis Lake Lock, Ark.	.....do	9	136
Natrona, Pa.	Allegheny	7	94	St. John, Calif.	Stony Creek	10	.....
Nebrauka City, Neb.	Missouri	6	80	St. Joseph, Mo.	Missouri	6	81
Nellisville, Wis.	Black	5	61	St. Louis, Mo.	Mississippi	6	73
Nemo, N. C.	Neuse	5	39	St. Paul, Minn.	.....do	6	68
New Braunfels, Tex.	Guadalupe	10	.....	St. Thomas, Mo.	Osaage	6	78
Newburgh, Ind.	Ohio	8	.....	Salem, Oreg.	Willamette	11	161
Newcomertown, Ohio	Tucumcavi	7	88	Salida, Colo.	Arkansas	9	.....
New Harmony, Ind.	Wabash	8	105	Salisbury, Pa.	Kiskadee	7	83
New Madrid, Mo.	Mississippi	9	138	Sapinero, Colo.	Gardner	10	.....
New Orleans, La.	.....do	9	141	Savannah, Tenn.	Tennessee	8	110
Newport, Ark.	White	9	125	Scandia, Kans.	Republican	6	.....
Newport, Pa.	Juniata	4	33	Schenley, Pa.	Allegheny	7	84
New Richmond, Ohio	Ohio	8	116	Selma, Ala.	Alabama	5	55
New River, Tenn.	New	8	108	Seward, Pa.	Conemaugh	7	83
Newton, Ala.	Choctawhatchee	5	51	Seymour, Ind.	White—East Fork	8	106
Nicomachus, Calif.	Feather	10	156	Sharon, Pa.	Shenandoah	7	.....
Noblesville, Ind.	White—West Fork	7	101	Shastone, N. Y.	Chenango	5	94
North Platte, Neb.	North Platte	5	46	Shasta, Ind.	White—East Fork	5	106
North Stratford, N. H.	Connecticut	4	27	Shawnee, Ind.	Chickasaw	5	56
Oklaheka City, Okla.	North Canadian	9	128	Shawnee, Miss.	Miss.	5	56
Ocala, Neb.	Missouri	6	80	Shawnee, Ohio	Allegheny	7	82
Oneonta, N. Y.	Susquehanna	4	33	Shawneeport, La.	Atchafalaya	8	142
Orange, Tex.	Sabine	10	143	Shawnee, Iowa	Missouri	6	80
Orange City, Oreg.	Willamette	10	147	Shawnee, N. C.	Kansas	5	29
Orcutt, Calif.	Feather	10	156	Shawnee, N. Va.	Colorado	10	147
Oscoda, Mo.	Osage	6	77	Shawnee, Va.	Kanawha	7	.....
Oswego, Kans.	Des Moines	9	127	Shawnee, W. Va.	Connecticut	4	.....
Ottawa, Iowa	Ohio	8	65	Shawnee, W. Va.	Connecticut	4	.....
Owensboro, Ky.	Arkansas	9	118-120	Shawnee, W. Va.	Mad.	7	85
Ozark, Ark.	White	8	124	Shawnee, W. Va.	Mormac	6	67
Paducah, Ky.	Ohio	8	121	Shawnee, W. Va.	Gauley	7	.....
Paintsville, Ky.	Lavina Fork	7	93	Shawnee, W. Va.	Susquehanna	4	34
Pampa, Colo.	Garrison—North Fork	10	.....	Shawnee, W. Va.	Youghiogheny	7	86
Parisburg, W. Va.	Allegheny	8	113	Shawnee, W. Va.	Tallahatchie	9	137
Parsons, Ark.	St. Francis	9	137	Shawnee, W. Va.	Tar	5	39
Peapack River, Ia.	Pearl	5	60	Shawnee, W. Va.	Ohio	8	119
Palmer, S. C.	Saluda	5	42	Shawnee, W. Va.	Wabash	8	105
Panacook, N. H.	Catawba	4	26	Shawnee, W. Va.	Columbia	11	.....
Peoria, Ill.	Illinois	6	66	Shawnee, W. Va.	Neucom	10	149
Perkins, Okla.	Cassaron	9	126	Shawnee, W. Va.	Sandusky	4	25
Perry, Ill.	Illinois	6	66	Shawnee, W. Va.	Miami	7	96
Perry, Ind.	Trenton	8	104	Shawnee, W. Va.	Kansas	6	76
Petersburg, Ind.	White	8	103	Shawnee, W. Va.	Susquehanna	4	34
Phillippi, W. Va.	Tygart	7	85	Shawnee, W. Va.	Des Moines	8	65
Pickwick Dam, Tenn.	Tennessee	8	110	Shawnee, W. Va.	Thompson Fork	8	76
Pierre, S. Dak.	Missouri	6	79	Shawnee, W. Va.	Delaware	4	30
Pikeville, Ky.	Lavina Fork	7	92	Shawnee, W. Va.	Mohawk	4	29
Pine Bluff, Ark.	Arkansas	9	131	Shawnee, W. Va.	Trinity	10	145
Piney Bluff, Ga.	Altamaha	5	48	Shawnee, W. Va.	Columbia	11	162
Piqua, Ohio	Miami	7	96	Shawnee, W. Va.	Arkansas	9	130
Pittsburgh, Pa.	Ohio	8	111	Shawnee, W. Va.	Black Warrior	5	56
Pleasant Hill, Ohio	Stillwater	7	95	Shawnee, W. Va.	Columbia	11	162
Plymouth, N. H.	Swigganaset	4	26	Shawnee, W. Va.	Bourbeuse	6	67
Point Pleasant, W. Va.	Ohio	8	113	Shawnee, W. Va.	Ohio	8	120-121
Poplar Bluff, Mo.	Black	8	123	Shawnee, W. Va.	Sandusky	4	24
Portage, Wisc.	Wisconsin	6	62	Shawnee, W. Va.	Brazos	10	146
Port Jervis, N. Y.	Delaware	4	30	Shawnee, W. Va.	Meramec	6	67
Portland, Mich.	Grand	4	.....	Shawnee, W. Va.	Arkansas	9	130
Portland, Oreg.	Willamette	11	161	Shawnee, W. Va.	Ohio	8	.....
Portsmouth, Ohio	Ohio	8	115	Shawnee, W. Va.	Columbia	11	162
Poston, S. C.	Pee Dee	5	.....	Shawnee, W. Va.	Reeoon	6	64
Prarie du Chien, Wisc.	Mississippi	6	70	Shawnee, W. Va.	Mississippi	9	139
Priest River, Idaho	Clark Fork	10	159	Shawnee, W. Va.	Guadalupe	10	149
Prosspect, Ohio	Scioto	7	93	Shawnee, W. Va.	Wabash	8	105
Pueblo, Colo.	Arkansas	9	.....	Shawnee, W. Va.	.....do	8	103
Quincy, Ill.	Mississippi	6	72	Shawnee, W. Va.	Brazos	10	146
Radford, Va.	New	7	90	Shawnee, W. Va.	Neosho	9	127
Rainbow, Tex.	Brazos	10	146	Shawnee, W. Va.	Republican	6	.....
Railston, Okla.	Arkansas	9	129	Shawnee, W. Va.	Connecticut	4	28
Randolph, Va.	Roanoke	4	37	Shawnee, W. Va.	Kansas	6	76
Ravenwood, W. Va.	Ohio	8	113	Shawnee, W. Va.	Iowa	6	63
Reading, Pa.	Schuylkill	4	30	Shawnee, W. Va.	Allegheny	7	83
Reids, Minn.	Mississippi	6	69	Shawnee, W. Va.	Osaage	6	78
				Shawnee, W. Va.	Missouri	6	.....
				Shawnee, W. Va.	Potomac	4	.....
				Shawnee, W. Va.	Potomac	4	36

MISSISSIPPI SYSTEM—OHIO BASIN—Continued

1945	January	February	March	April	May	June	July	August	September	October	November	December	1945	January	February	March	April	May	June	July	August	September	October	November	December
WABASH RIVER AT TERRE HAUTE, IND.													WABASH RIVER AT MT. CARMEL, ILL.												
Wabash—Ohio													Wabash—Ohio												
[Elevation of gage zero, 445.78 feet, m.s.l. Flood stage, 14 feet]													[Elevation of gage zero, 371.46 feet, m.s.l. Flood stage, 17 feet]												
1...	0.7	0.6	3.9	15.2	7.5	5.3	5.4	2.5	1.4	9.5	2.8	4.5	1...	1.1	0.9	11.9	17.2	10.7	7.4	14.7	2.9	1.8	11.7	3.0	7.9
2...	0.5	0.6	3.9	16.3	6.3	5.0	7.0	2.6	1.4	12.6	2.8	4.5	2...	1.1	0.9	12.3	18.5	10.3	6.6	11.4	2.9	1.5	12.5	2.9	7.8
3...	0.5	0.6	6.6	17.1	5.7	4.7	7.7	4.2	3.4	13.6	2.7	4.6	3...	1.1	0.8	15.4	19.6	9.3	5.9	10.0	2.7	1.4	13.6	3.4	7.5
4...	0.5	0.6	7.7	17.3	5.8	4.2	5.5	6.5	3.6	14.2	2.6	4.3	4...	1.3	0.9	17.1	20.4	8.5	5.5	9.6	2.6	1.5	14.4	3.4	7.1
5...	0.8	0.6	7.0	17.7	7.8	4.2	4.8	5.9	3.0	14.4	2.3	4.0	5...	1.5	0.8	18.0	21.4	7.7	5.1	9.2	3.4	2.1	14.8	3.4	6.8
6...	0.8	0.7	9.5	18.0	7.8	4.2	4.8	4.8	2.4	14.6	2.2	3.9	6...	1.6	0.7	19.7	22.1	7.4	4.8	8.3	4.4	2.2	15.0	3.3	6.3
7...	0.8	0.7	12.9	18.4	7.2	4.1	4.4	4.7	2.0	15.3	2.1	3.9	7...	1.8	0.7	22.0	22.6	7.7	4.5	7.2	4.4	2.0	15.0	3.1	5.8
8...	0.8	0.8	13.4	18.0	6.7	4.0	4.0	3.9	1.7	15.2	2.0	3.7	8...	1.6	0.7	22.8	22.8	8.0	5.4	6.3	4.0	1.9	15.0	3.1	5.3
9...	0.8	0.8	13.3	17.4	6.8	3.9	4.0	3.5	1.8	14.1	1.8	3.5	9...	1.4	0.6	23.3	23.0	7.8	6.6	5.7	4.2	1.6	14.9	3.1	5.0
10...	0.7	0.8	13.3	16.5	6.5	5.3	3.3	3.3	1.6	10.3	3.1	3.3	10...	1.3	0.7	23.8	23.0	7.6	8.1	5.1	3.6	1.5	14.4	3.6	4.7
11...	0.7	0.8	13.1	15.1	6.2	6.9	3.2	2.9	1.4	7.7	3.1	3.1	11...	1.1	0.8	23.9	22.7	7.4	9.0	4.8	3.3	1.5	13.3	4.2	4.5
12...	0.8	0.9	12.1	11.9	6.0	6.7	3.2	3.0	1.4	6.5	3.0	2.8	12...	1.0	1.0	23.7	22.3	7.1	9.4	4.5	3.2	1.4	11.5	4.7	4.2
13...	0.9	1.2	9.5	8.9	5.7	7.1	3.0	3.4	1.4	5.8	3.2	2.6	13...	1.1	1.2	23.6	21.5	7.0	9.9	4.2	3.2	1.4	9.3	4.6	4.0
14...	0.9	1.6	7.5	8.6	5.4	10.7	2.8	3.6	1.8	5.2	3.7	1.8	14...	1.1	1.6	23.3	20.1	6.8	10.7	4.0	4.0	1.4	7.8	5.1	3.7
15...	1.0	2.1	6.2	9.9	7.2	11.7	4.2	3.4	1.6	4.5	4.2	1.8	15...	1.1	2.1	22.5	18.8	7.4	11.7	4.3	5.7	1.8	7.0	5.4	3.5
16...	1.0	2.5	5.4	8.4	12.5	10.8	4.0	4.8	1.5	4.0	4.5	1.8	16...	1.3	2.7	21.4	18.1	10.0	12.8	4.2	6.2	1.8	6.3	5.7	3.0
17...	1.0	2.4	5.0	8.6	15.2	14.5	3.7	4.8	1.5	3.7	4.4	1.8	17...	1.5	3.2	20.2	17.9	12.6	15.3	4.6	5.2	1.8	5.8	5.6	3.0
18...	1.0	2.7	4.6	8.1	16.2	15.6	3.1	3.8	1.5	3.6	4.4	1.5	18...	1.5	3.8	18.9	17.7	14.5	17.8	4.7	6.2	1.5	5.3	5.4	2.5
19...	1.0	4.7	4.1	7.4	17.3	16.0	3.1	3.3	1.4	3.4	4.4	1.5	19...	1.6	3.8	17.5	17.4	15.5	19.1	4.2	5.6	1.4	4.9	5.3	2.0
20...	1.0	4.7	4.9	6.2	17.8	15.8	2.7	2.8	1.3	3.2	4.7	2.0	20...	2.0	3.7	17.0	17.0	16.2	20.1	3.9	4.4	1.4	4.5	5.7	3.7
21...	1.0	4.1	5.7	6.2	18.2	15.4	2.6	2.4	1.3	3.0	4.4	2.2	21...	2.3	4.2	17.0	16.7	16.8	21.2	3.6	3.6	1.4	4.1	7.0	3.3
22...	1.0	3.9	7.2	6.0	18.1	15.1	2.4	2.4	1.4	3.1	4.4	2.2	22...	2.0	5.1	16.8	15.3	17.4	22.2	3.3	3.2	1.4	3.8	9.0	3.3
23...	1.0	4.8	9.0	5.5	17.5	14.8	2.2	2.5	1.4	3.7	4.5	2.2	23...	2.1	6.2	16.7	14.4	18.1	22.6	3.1	2.8	1.3	3.6	10.3	3.5
24...	0.9	5.9	9.8	5.0	16.5	14.4	2.0	2.3	1.7	3.8	4.3	2.5	24...	2.0	6.9	17.0	13.6	18.9	23.1	2.8	2.5	1.3	3.9	10.5	3.8
25...	0.9	6.7	9.3	4.8	15.2	12.8	2.1	2.0	2.2	4.2	4.1	2.4	25...	1.8	7.5	17.4	12.2	19.3	23.1	2.6	2.6	1.6	4.3	10.2	4.7
26...	0.9	6.3	8.4	5.4	12.2	11.1	2.2	1.9	3.3	3.9	3.8	4.2	26...	1.6	8.6	17.6	10.7	18.8	22.9	3.3	2.4	3.0	4.0	9.4	8.0
27...	0.9	5.2	8.0	8.1	9.7	8.9	2.1	1.7	4.1	3.6	3.6	4.4	27...	1.4	11.1	17.6	10.3	17.4	22.4	3.4	2.2	4.7	3.8	8.5	10.1
28...	0.9	4.3	6.8	8.2	8.0	7.3	2.2	1.6	5.2	3.3	3.9	5.5	28...	1.3	12.0	17.5	10.4	15.9	21.6	3.4	2.0	7.2	3.6	8.0	11.2
29...	0.9	5.6	8.3	7.0	6.1	2.7	1.5	6.2	3.0	4.2	4.7	5.7	29...	1.2	10.0	17.0	10.8	13.7	20.1	3.1	1.9	10.6	3.4	8.1	12.2
30...	0.8	6.7	8.3	6.3	5.3	2.6	1.4	8.1	3.2	4.5	7.6	7.6	30...	1.0	10.0	16.2	10.9	10.9	17.7	3.5	1.8	11.2	3.3	8.1	12.4
31...	0.7	10.4	5.9	2.5	1.4	3.1	13.5	31...	0.9	16.3	8.7	3.1	31...	0.9	16.3	8.7	3.1	1.7	3.1	1.7	3.1	3.1	3.1	3.1	13.3
M'n...	0.8	2.6	8.1	11.0	10.1	9.1	3.5	3.2	2.4	7.1	3.5	4.5	M'n...	1.4	3.3	18.9	17.6	11.8	13.8	5.4	3.5	2.5	8.3	5.8	5.9
WABASH RIVER AT VINCENNES, IND.													WABASH RIVER AT NEW HARMONY, IND.												
Wabash—Ohio													Wabash—Ohio												
[Elevation of gage zero, 395.43 feet, m.s.l. Flood stage, 14 feet]													[Elevation of gage zero, 353.20 feet, m.s.l. Flood stage, 15 feet]												
1...	0.2	0.2	3.8	12.5	7.0	5.5	5.8	2.0	1.0	6.5	2.2	3.9	1...	1.2	1.2	9.5	14.0	8.4	6.5	15.3	2.8	1.6	9.2	2.8	6.3
2...	0.2	0.2	4.0	13.9	6.6	5.0	5.7	1.9	0.8	9.0	2.1	3.8	2...	1.0	0.8	9.7	14.8	8.2	5.6	13.6	2.8	1.6	9.9	2.8	6.2
3...	0.2	0.2	7.7	15.3	6.0	4.6	6.2	1.9	0.8	9.2	2.7	3.7	3...	0.6	0.6	11.5	15.4	7.7	5.0	9.6	2.7	1.6	10.6	2.7	6.1
4...	0.2	0.2	9.1	16.3	5.5	4.3	6.1	1.8	0.8	10.0	2.3	3.7	4...	0.3	0.8	13.0	15.8	7.0	4.6	8.1	2.7	1.6	11.2	3.0	6.0
5...	0.2	0.2	8.3	17.2	6.1	4.1	5.3	4.3	2.6	10.2	2.0	3.7	5...	1.1	1.0	13.7	16.2	6.3	4.4	7.5	2.6	1.6	11.7	3.1	6.0
6...	0.2	0.1	9.6	17.5	5.4	3.8	4.7	4.7	2.5	10.4	2.0	3.5	6...	0.1	0.9	14.8	16.8	5.8	4.0	7.0	3.4	1.9	11.9	3.1	5.8
7...	0.1	0.0	12.7	17.6	6.2	3.6	4.3	4.1	1.9	10.6	1.9	3.2	7...	1.0	0.8	16.0	17.4	5.8	4.0	6.2	3.8	2.2	11.9	3.0	5.4
8...	0.1	0.0	13.4	17.7	6.2	3.6	4.0	3.7	1.4	10.7	1.8	3.1	8...	1.6	0.8	17.2	17.8	6.1	4.4	5.4	3.6	2.0	11.9	2.8	5.0
9...	0.0	0.0	13.0	17.8	5.9	4.2	3.6	3.5	1.3	10.8	2.0	3.0	9...	1.4	0.7	18.2	18.1	6.2	5.0	4.8	3.4	1.9	11.8	2.7	4.6
10...	0.0	0.0	12.8	17.9	5.6	5.1	3.4	3.0	1.2	10.9	2.7	2.9	10...	1.2	0.6	19.2	18.3	5.9	6.1	4.4	3.5	1.8	11.6	2.7	4.2
11...	0.0	0.0	12.5	17.7	5.5	6.2	3.3	3.2	1.2	10.4	2.8	2.7	11...	1.1	0.9	19.8	18.3	5.8	6.8	4.0	3.2	1.7	11.1	3.2	4.0
12...	0.0	0.0	12.4	17.2	5.4	6.6	3.0	2.8	1.1	8.1	2.7	2.6	12...	1.1	0.9	20.1	18.2	5.5	7.4	3.9	3.6	1.6	10.1	3.9	3.8
13...	0.0	0.0	11.7	16.3	5.0	7.7	2.9	2.7	1.0	6.1	2.7	2.5	13...	1.0	1.1	20.1	17.9	5.4	7.6	3.7	3.3	1.6	8.4	4.0	3.7
14...	0.0	0.2	9.9	15.1	4.8	8.9	2.6	2.8	1.0	5.6	3.1	2.2	14...	1.1	1.2	20.0	17.6	5.4	8.0	3.5	3.4	1.6	6.8	4.2	3.5
15...	0.0	0.5	7.5	13.8	5.6	10.0	2.5	4.1	1.2	4.6	3.3	2.0	15...	1.2	1.8	19.6	16.8	5.4	8.6	3.7	4.0	1.7	6.0	4.4	3.4
16...	0.4	1.0	6.0	12.7	6.7	11.3	3.2	3.5	1.1	4.1	3.5	1.8	16...	1.2	2.2	19.0	16.0	6.5	9.4	3.8	5.3	1.8	5.4	4.6	3.0
17...	0.4	1.2	5.1	12.2	10.7	13.8	3.6	3.6	1.0	3.6	3.6	2.6	17...	1.5	2.5	18.3	15.4	8.6	10.8	3.7	4.9	1.8	4.9	4.7	2.6
18...	0.3	1.5	4.5	11.5	12.0	15.0	3.2	3.7	0.9	3.2	3.3	3.7	18...	1.6	3.0	17.5	15.0	10.4	12.8	4.0	4.8	1.6	4.6	4.6	2.2
19...</																									

W. B. No. 1515

UNITED STATES DEPARTMENT OF COMMERCE

CHARLES SAWYER, *Secretary*

WEATHER BUREAU

F. W. REICHELDERFER, *Chief*

DAILY RIVER STAGES

AT RIVER GAGE STATIONS ON THE
PRINCIPAL RIVERS OF THE
UNITED STATES

REFERENCE
DO NOT CIRCULATE

Volume XLII

1946

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DAILY RIVER STAGES—1946

INTRODUCTION

This volume, containing the daily river stages for 1946, is the forty-second of a series of Daily River Stages on the Principal Rivers of the United States, the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.

II. Stages of the Mississippi River and of its Principal Tributaries, except the Ohio River, 1860 to 1889.

III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.

DAILY RIVER STAGES AT RIVER GAGE STATIONS ON THE PRINCIPAL RIVERS OF THE UNITED STATES

Volume IV. 1890 to 1892.	Volume XIV. 1916.	Volume XXIV. 1926.	Volume XXXIV. 1936.
V. 1893 to 1895.	XV. 1917.	XXV. 1927.	XXXV. 1937.
VI. 1896 to 1899.	XVI. 1918.	XXVI. 1928.	XXXVI. 1938.
VII. 1900 to 1904.	XVII. 1919.	XXVII. 1929.	XXXVII. 1939.
VIII. 1905 and 1906.	XVIII. 1920.	XXVIII. 1930.	XXXVIII. 1940 and 1941.
IX. 1907 and 1908.	XIX. 1921.	XXIX. 1931.	XXXIX. 1942 and 1943.
X. 1909 and 1910.	XX. 1922.	XXX. 1932.	XL. 1944.
XI. 1911 and 1912.	XXI. 1923.	XXXI. 1933.	XLI. 1945.
XII. 1913 and 1914.	XXII. 1924.	XXXII. 1934.	
XIII. 1915.	XXIII. 1925.	XXXIII. 1935.	

Volumes XXXIII to XLII can be bought from the Superintendent of Documents, Washington, D. C.; other volumes are out of print and cannot be supplied.

The river stages are the vertical distances, in feet and tenths, of the water surface above or below the zero of the gage. The zero has, as a rule, been set at or near the lowest known water.

Gage readings are usually made at 8 a.m., seventy-fifth meridian time, east of the Continental Divide, and at 7 a.m., local time, west of the divide.

Extreme stages for a month, or important crest stages, not observed at the regular time for reading the gage, are printed as a note at the foot of the table or page. This practice was begun in 1907.

In some cases the zero planes of gages have been changed, either through accident or through necessary removals. The stations at which changes have occurred are given in a table headed "Corrigenda," and the corrections required to reduce previous readings to the zero now in use are also given in the table if they have not been previously published.

The country is divided into districts, and each district has a designated center at which the administrative and forecasting work is carried on. The following table shows the centers and their districts.

ADMINISTRATIVE AND FORECASTING CENTERS AND THEIR DISTRICTS

Albany, N. Y.....	Hudson River and tributaries.
Albuquerque, N. Mex.....	Pecos River in New Mexico; Rio Grande and tributaries at and above Elephant Butte Reservoir Dam, N. Mex.; Canadian River and tributaries in New Mexico; and the San Juan River and tributaries.
Allentown, Pa.....	Lackawaxen River and the Lehigh River above but not including Easton, Pa.
Asheville, N. C.....	French Broad River and tributaries above North Carolina-Tennessee State line.
Atlanta, Ga.....	Apalachicola, Altamaha, St. Marys, and Satilla Rivers and tributaries.
Augusta, Ga.....	Savannah and Ogeechee Rivers and tributaries.
Austin, Tex.....	Colorado River (of Texas) and tributaries.
Bakersfield, Calif.....	Kern River and tributaries; Buena Vista Lake drainage and Poso Creek.
Billings, Mont.....	Yellowstone River and tributaries.
Binghamton, N. Y.....	Susquehanna River and tributaries above Towanda, Pa.
Bismarck, N. Dak.....	Missouri River and tributaries from and including Fort Peck Dam to and including Bismarck, N. Dak., except the Milk and Yellowstone.
Boise, Idaho.....	Snake River and tributaries above and including Lewiston, Idaho.
Brownsville, Tex.....	Rio Grande below Laredo, Tex.

- Burlington, Iowa.....Mississippi River and tributaries, except the Des Moines above Eldon, Iowa, from and including Dam No. 18 and upstream gage to but not including Dam No. 24.
- Cairo, Ill.....Ohio River below Dam No. 50 at Fords Ferry, Ky.; Mississippi River from and including Cape Girardeau, Mo., to including New Madrid, Mo.; Tennessee River and tributaries below Decatur, Ala.
- Charleston, S. C.....Waccamaw, Black, and Yadkin-PeeDee Rivers and tributaries.
- Chattanooga, Tenn.....Tennessee River and tributaries from below Knoxville, Tenn., to and including Decatur, Ala.
- Cincinnati, Ohio.....Ohio River and tributaries, except the Scioto River, from below Dam No. 30 to and including the mouth of the tucky River.
- Columbia, S. C.....Santee River and tributaries.
- Columbus, Ohio.....Sandusky and Scioto Rivers.
- Concord, N. H.....Merrimack River and tributaries.
- Dallas, Tex.....Trinity River and tributaries above Long Lake, Tex.
- Davenport, Iowa.....Mississippi River and tributaries from but not including Dam No. 10, to but not including Dam No. 18.
- Del Rio, Tex.....The Rio Grande and tributaries from but not including the Pecos River to and including Laredo, Tex.
- Denver, Colo.....North Platte and South Platte Rivers and tributaries at and above North Platte, Nebr.
- Des Moines, Iowa.....Des Moines River and tributaries above Eldon, Iowa.
- Elkins, W. Va.....Tygart River and tributaries at and above the Tygart River Dam, W. Va.
- El Paso, Tex.....The Rio Grande and tributaries from below Elephant Butte Reservoir Dam, N. Mex., to and including the mouth the Pecos River; the Pecos River in Texas.
- Eureka, Calif.....California Coast drainage from Point Delgada northward to but not including the Klamath River.
- Evansville, Ind.....Ohio River and tributaries, except the Wabash River, from below Hawesville, Ky., to and including Dam No. 50 Fords Ferry, Ky.
- Fargo, N. Dak.....Red River of the North and tributaries below the Canadian line.
- Fort Wayne, Ind.....Maumee River and tributaries.
- Fresno, Calif.....San Joaquin River and tributaries above the mouth of the Tuolumne River.
- Grand Junction, Colo.....Colorado River and tributaries above but not including the mouth of the San Juan.
- Grand Rapids, Mich.....Grand River and tributaries below Grand Ledge, Mich.
- Harrisburg, Pa.....Susquehanna River and tributaries at and below Towanda, Pa.
- Hartford, Conn.....Connecticut River and tributaries.
- Helena, Mont.....Missouri River and tributaries above Fort Peck Dam; Milk River.
- Houston, Tex.....Neches and Brazos Rivers; Trinity River at and below Long Lake, Tex.
- Huntington, W. Va.....Ohio River and tributaries from below Dam No. 23 to and including Dam No. 30, Greenup, Ky.
- Indianapolis, Ind.....Wabash River and tributaries.
- Jackson, Miss.....Pascagoula and Pearl Rivers and tributaries.
- Kansas City, Mo.....Missouri River and tributaries, except the Kansas River at and above Lawrence, Kans., from the mouth of the Platt River to and including Lexington, Mo.
- Knoxville, Tenn.....Tennessee River and tributaries at and above Knoxville, Tenn., except French Broad River and tributaries above North Carolina-Tennessee State line.
- La Crosse, Wis.....Mississippi River and tributaries from and including Dam No. 2 to and including Dam No. 10; Lake Superior drainage from but not including St. Louis River eastward to Wisconsin-Michigan State line (including Montreal River), and Lake Michigan drainage from and including Menominee River southward to Wisconsin-Illinois State line.
- Lake Charles, La.....Sabine, Calcasieu, Mermentau, and Vermillion Rivers.
- Lansing, Mich.....Grand River and tributaries at and above Grand Ledge, Mich.; Saginaw River and tributaries.
- Little Rock, Ark.....Arkansas River and tributaries below Van Buren, Ark.; Walte River and tributaries; Ouachita River and tributaries in Arkansas.
- Los Angeles, Calif.....California Coast drainage south of Point Buchon; the Salton Sea basin; Great Basin in California, south of and including Mono Lake drainage.
- Louisville, Ky.....Ohio River and tributaries from below the mouth of the Kentucky to and including Hawesville, Ky.
- Lynchburg, Va.....James River and tributaries above Columbia, Va.
- Medford, Oreg.....Oregon and California Coast drainage, from and including Umpqua River basin, southward to and including Klamath River and tributaries; the Great Basin in Oregon, except the Quinn River.
- Memphis, Tenn.....Mississippi River from below New Madrid, Mo., to the mouth of the White River; St. Francis River and tributaries.
- Minneapolis, Minn.....Mississippi River and tributaries above but not including Dam No. 2.
- Mobile, Ala.....Tombigbee River and tributaries.
- Montgomery, Ala.....Alabama River and tributaries.
- Nashville, Tenn.....Cumberland River and tributaries.
- New Orleans, La.....Mississippi River below Natchez, Miss.; Red River below Alexandria, La.; Ouachita and Black Rivers and tributaries in Louisiana; Atchafalaya River.
- Norfolk, Nebr.....Elkhorn River and tributaries; Omaha Creek.
- Oklahoma City, Okla.....Canadian River and tributaries east of the eastern boundary of New Mexico.
- Omaha, Nebr.....Missouri River and tributaries from below Sioux City, Iowa, to and including the mouth of the Platte, except the North Platte and the South Platte at and above North Platte, Nebr., and excluding the Elkhorn River.
- Parkersburg, W. Va.....Ohio River and tributaries from below Dam No. 13 to and including Dam No. 23, near Apple Grove, Ohio.
- Pensacola, Fla.....Escambia and Choctawhatchee Rivers and tributaries.
- Philadelphia, Pa.....Delaware River and tributaries, except the Lackawaxen, the Lehigh above Easton, Pa., and the Schuylkill above Perkiomen Creek.
- Phoenix, Ariz.....Gila River and tributaries at and above Gila Bend, Ariz., and the Colorado River and tributaries from but not including the San Juan to but not including the mouth of the Virgin River.
- Pittsburgh, Pa.....Ohio River and tributaries at and above Dam No. 13, except the Tygart River at and above Tygart River Dam, W. Va.
- Portland, Maine.....Rivers in Maine.
- Portland, Oreg.....Columbia River and tributaries below Grand Coulee Dam, except the Snake River at and above Lewiston, Idaho; Oregon Coast drainage north of the Umpqua River basin.
- Pueblo, Colo.....Arkansas River and tributaries in Colorado.

Raleigh, N. C.....The rivers and their tributaries that enter the Atlantic Ocean on the North Carolina coast.
Reading, Pa.....Schuylkill River and tributaries above Perkiomen Creek.
Richmond, Va.....James River and tributaries at and below Columbia, Va.
Sacramento, Calif.....Rivers in the central valleys of California, except the San Joaquin River above the mouth of the Tuolumne River.
St. Louis, Mo.....Mississippi River and tributaries from and including Dam No. 24 and its upstream gage to but not including Cape Girardeau, Mo., except the Osage River in Kansas and the Missouri River at and above Lexington, Mo.
Salt Lake City, Utah.....Great Salt Lake basin.
San Antonio, Tex.....Guadalupe, Nueces, and the San Antonio Rivers and tributaries.
San Francisco, Calif.....California Coast drainage, except rivers in the Central Valley of California, from Point Delgada to Point Buchon.
Seattle, Wash.....Puget Sound and Washington Coast drainage, except the Columbia River.
Shreveport, La.....Red River and tributaries at and above Alexandria, La.
Sioux City, Iowa.....Missouri River and tributaries from below Bismarck, N. Dak., to and including Sioux City, Iowa.
Spokane, Wash.....Columbia River and tributaries above and including Grand Coulee Dam.
Topeka, Kans.....Kansas River and tributaries at and above Lawrence, Kans., Osage River and tributaries in Kansas.
Tulsa, Okla.....Arkansas River and tributaries, except the Canadian River, from the Kansas-Colorado line to and including Van Buren, Ark.
Vicksburg, Miss.....Mississippi River from the mouth of the White River to and including Natchez, Miss.; Yazoo and Big Black Rivers and tributaries.
Washington, D. C.....Potomac and Rappahannock Rivers and tributaries.
Yuma, Ariz.....Colorado River and tributaries from and including the mouth of the Virgin River to the Arizona-Mexico border, and the Gila River below Gila Bend, Ariz.

RIVER STATIONS AND MISCELLANEOUS INFORMATION

River stations, arranged by drainage areas, and miscellaneous information pertaining thereto—Continued

Station	River	Length of record ¹	Elevation of gage above mean sea level ²	Distance of gage above mouth of river ³	Drainage area above gage ⁴	Flood stage	Extreme stages from gage ⁵		
							Highest	Date	Lowest
MISSISSIPPI SYSTEM—Continued									
Ohio Basin—Continued									
		Years	Feet	Miles	Sq. miles	Feet	Feet		Feet
Lock No. 2, Rumsey, Ky.....	Green.....	48	343.64	62.8	7,681	34	54.42	Jan. 31, 1937	3.7
Anderson, Ind.....	West Fork.....	36	825.02	242.6	428	10	22.9	Mar. 25, 1913	3.8
Noblesville, Ind.....	do.....	33	738.16	215.1	844	14	18.8	Jan. 16, 1937	3.0
Indianapolis, Ind.....	do.....	36	672.92	185.3	1,590	12	29.5	Mar. 26, 1913	2.0
Spencer, Ind.....	do.....	21	526.04	.....	2,980	14	23.2	Jan. 16, 1937	.9
Ellettsville, Ind.....	do.....	39	472.94	78.2	4,470	18	31.3	Mar. 27, 1913	5.3
Edwardsport, Ind.....	do.....	24	433.20	32.6	4,995	12	25.0	May 22, 1943	2.0
Seymour, Ind.....	East Fork.....	24	550.67	167.6	2,282	14	19.5	Jan. 16, 1937	.3
Williams, Ind.....	do.....	26	472.56	79.2	4,584	10	25.0	Jan. 25, 1937	-2.0
Shoals, Ind.....	do.....	39	442.21	56.0	4,828	25	42.2	Mar. 28, 1913	1.2
Petersburg, Ind.....	White.....	12	400.00	47.8	11,100	16	28.1	Jan. 21, 1937	.0
Hazleton, Ind.....	do.....	23	383.26	18.9	11,200	16	31.6	Jan. 22, 1937	.5
Bluffton, Ind.....	Wabash.....	36	793.01	421.8	555	10	20.0	Mar. 26, 1913	.2
Wabash, Ind.....	do.....	24	642.66	.....	1,740	12	24.8	May 18, 1943	1.7
Peru, Ind.....	do.....	2	622.73	378.0	2,660	20	.....	.....	.....
Logansport, Ind.....	do.....	29	573.28	343.2	3,860	17	25.3	Mar. 26, 1913	2.2
La Fayette, Ind.....	do.....	33	504.14	301.4	7,324	11	28.4	May 19, 1943	.5
Covington, Ind.....	do.....	20	473.97	260.5	8,399	16	32.4	May 20, 1943	1.2
Terre Haute, Ind.....	do.....	48	445.78	204.4	12,333	14	31.3	Mar. 27, 1913	-2.0
Riverton, Ind.....	do.....	8	414.65	.....	13,100	.....	26.4	Mar. 28, 1913	.0
Vincennes, Ind.....	do.....	30	396.43	117.2	13,840	14	27.0	May 22, 1943	-8.8
Mount Carmel, Ill.....	do.....	63	371.46	83.9	28,506	17	31.0	Mar. 30, 1913	-2
New Harmony, Ind.....	do.....	13	353.20	44.0	29,160	15	24.4	Jan. 30, 1937	-2
New River, Tenn.....	New Fork.....	39	1,062.67	8.0	383	18	41.2	Mar. 23, 1929	.....
Rock Island, Tenn.....	Caney Fork.....	36	647.41	90.3	1,636	30	40.6	.....	.0
Williamsburg, Ky.....	Cumberland.....	39	892.40	592.7	1,673	19	30.4	Mar. 25, 1929	-2.5
Burnside, Ky.....	do.....	62	585.25	518.4	4,949	50	69.4	Mar. 24, 1929	-1.6
Celina, Tenn.....	do.....	43	489.47	383.1	7,323	40	57.11	Dec. 29, 1926	-2
Carthage, Tenn.....	do.....	62	437.67	308.4	10,754	40	58.7	Dec. 30, 1926	-4
Nashville, Tenn.....	do.....	73	368.17	182.6	12,879	40	56.2	Jan. 1, 1927	-1
Clarksville, Tenn.....	do.....	46	330.65	127.0	14,504	46	65.85	Jan. 25, 1937	-1.0
Lock F, Eddyville, Ky.....	do.....	29	289.61	43.6	17,500	50	76.9	Jan. 26, 1937	-7
Wendota, Va.....	North Fork.....	41	1,330.56	38.3	530	8	17.5	June 14, 1907	.3
Elizabethton, Tenn.....	Watauga.....	37	1,486.23	24.4	665	14	20.9	Aug. 14, 1940	.0
Bluff City, Tenn.....	South Fork.....	47	1,368.35	34.2	810	12	15.0	May 22, 1901	-2
Embsville, Tenn.....	Holchuck.....	27	1,519.30	77.0	804	8	.....	Aug. 16, 1928	.5
Rosman, N. C.....	French Broad.....	11	211.3	.....	69	8	.....	.....	.....
Asheville, N. C.....	do.....	44	1,059.80	147.3	949	8	28.6	July 16, 1916	.0
Hot Springs, N. C.....	do.....	13	1,311.55	106.6	1,570	8	16.1	Aug. 30, 1940	2.1
Knockville, Tenn.....	Tennessee.....	64	767.68	651.3	8,934	20	36.1	Mar. 1, 1902	-1.9
Chattanooga, Tenn.....	do.....	73	621.12	464.1	21,360	30	52.1	Apr. 3, 1886	.0
Florence, Ala.....	do.....	76	401.12	256.5	30,662	18	32.5	Mar. 19, 1887	-3.0
Pickwick Dam, Tenn.....	do.....	9	342.20	206.7	32,820	43	51.6	Apr. 7, 1936	.....
Savannah, Tenn.....	do.....	36	341.61	189.5	33,009	39	51.1	Jan. 2, 1927	-2.8
Kentucky Dam, Ky. (Upper gage).....	do.....	2	335.00	22.4	40,200	40	.....	.....	.....
Pittsburgh, Pa.....	Ohio.....	75	694.00	861.0	19,101	25	46.0	Mar. 18, 1936	1.9
Coraopolis, Pa.....	do.....	40	683.43	871.8	19,474	26	43.6	.....	.5
Dam No. 6 Beaver, Pa.....	do.....	54	655.40	951.7	22,754	30	55.5	Mar. 19, 1936	.1
Dam No. 7, Midland, Pa.....	do.....	35	647.20	944.5	22,952	30	53.7	.....	.....
Dam No. 12, near Wheeling, W. Va.....	do.....	36	610.80	893.6	24,614	36	55.2	.....	2.7
Dam No. 13, near Wheeling, W. Va.....	do.....	46	602.80	894.9	25,139	43	57.9	.....	2.2
Marietta, Ohio:									
Lower gage (Muskingum).....	do.....	33	567.12	809.0	35,575	36	55.0	Jan. 26, 1937	7.0
Parkersburg, W. Va.....	do.....	59	561.87	796.4	37,914	36	58.9	Mar. 29, 1913	.3
Dam No. 19, Little Hocking, Ohio.....	do.....	30	555.30	768.8	38,053	40	58.0	Jan. 26, 1937	2.7
Dam No. 20, near Belleville, W. Va.....	do.....	30	549.1	778.5	39,342	45	58.6	Jan. 27, 1937	1.3
Dam No. 22, Ravenswood, W. Va.....	do.....	32	536.00	760.1	39,843	44	62.6	.....	.2
Dam No. 25, near Addison, Ohio.....	do.....	19	512.10	720.3	40,374	43	60.9	.....	5.2
Point Pleasant, W. Va.....	do.....	58	514.12	715.8	40,521	40	62.8	Mar. 30, 1913	.0
Gallipolis Dam, Hogsett, W. Va.:									
Upper gage.....	do.....	10	520.00	701.8	53,300	35	52.6	Jan. 27, 1937	.....
Lower gage.....	do.....	10	503.00	701.8	53,300	50	69.6	.....	.....
Dam No. 28, Huntington, W. Va.....	do.....	33	490.26	669.4	55,954	50	69.43	.....	2.8
Dam No. 29, Ashland, Ky.....	do.....	30	483.10	661.1	60,748	51	73.6	.....	1.4
Dam No. 30, near Greensburg, Ky.....	do.....	27	475.10	641.6	61,702	52	74.7	.....	2.6
Portsmouth, Ohio.....	do.....	60	470.90	625.0	62,485	50	74.23	.....	.9
Dam No. 32, near Vanceburg, Ky.....	do.....	28	460.10	598.4	68,495	53	75.5	.....	3.2
Dam No. 33, near Maysville, Ky.....	do.....	21	452.60	575.9	70,129	50	75.34	.....	2.6
Dam No. 35, New Richmond, Ohio.....	do.....	26	440.00	530.0	71,032	48	75.1	Jan. 26, 1937	2.1
Dam No. 36, near Brent, Ky.....	do.....	21	433.60	520.1	71,166	52	79.8	.....	2.5
Cincinnati, Ohio.....	do.....	89	428.80	509.8	76,578	52	80.0	.....	1.9
Dam No. 37, Fernbank, Ohio.....	do.....	33	425.30	497.8	76,783	50	78.8	Jan. 25, 1937	2.8
Dam No. 38, near Grant, Ky.....	do.....	22	417.90	477.7	82,808	51	78.6	Jan. 26, 1937	5.2
Dam No. 38, Markland, Ind.....	do.....	31	410.60	449.3	83,170	48	73.5	.....	.9
Dam No. 41, Louisville, Ky.:									
Upper gage.....	do.....	75	403.00	374.2	91,173	28	57.15	Jan. 27, 1937	4.8
Lower gage.....	do.....	75	374.00	374.0	91,173	55	85.4	.....	4.9
Dam No. 43, Evans Landing, Ind.....	do.....	24	366.10	347.8	94,483	57	87.0	.....	1.3
Dam No. 44, Leavenworth, Ind.....	do.....	21	357.10	317.8	95,702	53	84.2	.....	.5
Dam No. 45, Addison, Ky.....	do.....	19	349.60	278.0	96,369	47	68.9	Jan. 28, 1937	2.8
Tell City, Ind.....	do.....	8	347.62	254.0	96,750	38	56.95	.....	.....
Dam No. 46, Owensboro, Ky.....	do.....	24	338.10	223.7	97,270	41	54.8	Jan. 29, 1937	-2
Dam No. 47, Newburgh, Ind.....	do.....	24	330.60	203.3	97,787	38	56.6	Jan. 31, 1937	4.1
Evansville, Ind.....	do.....	54	328.70	188.7	107,052	42	53.75	.....	-3
Dam No. 48, near Henderson, Ky.....	do.....	25	322.60	171.4	107,573	38	58.6	Feb. 1, 1937	1.5
Mount Vernon, Ind.....	do.....	36	318.82	152.0	107,733	35	59.21	Feb. 1, 1937	-0.2
Dam No. 49, Uniontown, Ky.....	do.....	23	312.10	136.0	107,953	37	64.4	.....	2.8
Dam No. 50, Forts Ferry, Ky.....	do.....	23	301.10	104.2	143,112	34	68.3	Feb. 2, 1937	4.4
Dam No. 51, Golconda, Ill.....	do.....	22	294.60	77.9	143,655	40	62.6	.....	3.8
Paducah, Ky.....	do.....	73	288.26	46.6	202,713	39	60.6	.....	-7
Dam No. 52, Brookport, Ill.....	do.....	23	283.30	42.1	202,765	37	62.3	.....	2.7
Dam No. 53, near Mound City, Ill.....	do.....	23	273.10	18.4	203,154	42	64.0	.....	5.2
Cairo, Ill.....	do.....	86	270.62	1.7	203,943	40	59.5	Feb. 3, 1937	-1.0
White Basin									
Gilbert, Ark.....	Buffalo.....	23	545.08	55.0	840	30	42.0	Apr. 15, 1945	2.3
Doniphan, Mo.....	Current.....	26	519.13	.....	2,040	10	24.0	Mar. 12, 1935	1.75
Leeper, Mo.....	Black.....	26	424.66	250.0	957	11	20.0	May 14, 1933	1.2

See footnotes at end of table.

Station	River	Miscellaneous data	Gage readings	Station	River	Miscellaneous data	Gage readings
Midville, Ga.	Ogeechee	Page 5	Page 46	Radford, Va.	New	Page 7	Page 93
Miles City, Mont.	Yellowstone	6	75	Rainbow, Tex.	Brazos	10	.....
Millersville, Ga.	Oconee	5	48	Raiston, Okla.	Arkansas	9	132
Millers Ferry, Ala.	Alabama	5	57	Randolph, Va.	Roanoke	5	39
Millstead, Ala.	Tallapoosa	5	55	Ravenswood, W. Va.	Ohio	8	116
Mineral Wells, Tex.	Brazos	10	.....	Reading, Pa.	Schuylkill	4	30
Minneapolis, Minn.	Mississippi	6	68	Reads, Minn.	Mississippi	6	69
Moline, Ill.	Rock	6	63	Red Bluff, Calif.	Sacramento	10	161
Moncure, N. C.	Cape Fear	5	41	Red River Landing, La.	Mississippi	9	144
Monroe, La.	Ouachita	9	136	Red Wing, Minn.	Mississippi	6	69
Montague City, Mass.	Connecticut	4	.....	Renovo, Pa.	Susquehanna—West Branch	4	33
Montezuma, Ga.	Flint	5	51	Resaca, Ga.	Oostanula	5	53
Montgomery, Ala.	Alabama	5	56	Reserve, La.	Mississippi	9	145
Monticello, Miss.	Pearl	5	61	Richmond, Tex.	Brazos	10	150
Montpelier, Ohio	St. Joseph	4	24	Richmond, Va.	James	4	38
Moorhead, Minn.	Red of North	4	22	Rimini, S. C.	Santee	5	45
Morgan City, La.	Atchafalaya	10	146	Ringo Crossing, Tex.	Sulphur	9	.....
Morgantown, W. Va.	Monongahela	7	89	Rio Grande City, Tex.	Rio Grande	10	155
Morrilton, Ark.	Arkansas	9	134	Rio Vista, Calif.	Sacramento	10	162
Morris, Ill.	Illinois	6	66	Riparia, Wash.	Snake	11	.....
Mosgrove, Pa.	Allegheny	7	86	River Falls, Ala.	Conecuh	5	53
Mound City, Ill.	Ohio	8	.....	Riverside, Tex.	Trinity	10	149
Mount Carmel, Ill.	Wabash	8	108	Riverton, Ind.	Wabash	8	109
Mount Vernon, Ga.	Oconee	5	49	Riverton, Va.	Shenandoah	4	36
Mount Vernon, Ind.	Ohio	8	123	Rock Island, Tenn.	Caney Fork	8	109
Mud, Tex.	Colorado	10	.....	Rockdale, N. Y.	Unadilla	4	31
Murfreesville, Ky.	Green	7	102	Rockland, Tex.	Trinity	10	147
Muscataine, Iowa	Mississippi	6	72	Rockwall, Tex.	Trinity—East Fork	10	148
Naples, Tex.	Sulphur	9	137	Rocky Mount, N. C.	Tar	5	40
Nashua, N. H.	Merrimack	4	26	Rome, Ga.	Oostanula	5	54
Nashville, Tenn.	Cumberland	8	110	Rosser, N. C.	French Broad	8	.....
Natchez, Miss.	Mississippi	9	144	Rosser, Tex.	Trinity	10	.....
Natrona, Pa.	Allegheny	7	87	Rumsey, Ky.	Green	8	103
Nebraska City, Nebr.	Missouri	7	83	Sacramento, Calif.	Sacramento	10	162
Neillsville, Wis.	Black	6	62	Saginaw, Mich.	Saginaw	4	24
Neligh, Nebr.	Elkhorn	6	75	Saginaw, Oreg.	Willamette—Coast Fork	11	.....
Neuse, N. C.	Neuse	5	40	St. Charles, Mo.	Missouri	7	84
New Braunfels, Tex.	Guadalupe	10	.....	St. Francis, Ark.	St. Francis	9	140
Newburgh, Ind.	Ohio	8	.....	St. Francis Lake Lock, Ark.	.....	9	140
Newcomertown, Ohio	Tuscarawas	7	90	St. John, Calif.	Stony Creek	10	.....
New Harmony, Ind.	Wabash	8	109	St. Joseph, Mo.	Missouri	7	80
New Madrid, Mo.	Mississippi	9	142	St. Louis, Mo.	Mississippi	6	73
New Orleans, La.	.....	9	145	St. Paul, Minn.	.....	6	69
Newport, Ark.	White	8	128	St. Thomas, Mo.	Osage	6	80
Newport, Pa.	Junata	4	33	Salem, Oreg.	Willamette	11	165
New Richmond, Ohio	Ohio	8	119	Salida, Colo.	Arkansas	9	.....
New River, Tenn.	New	8	109	Salisbury, Pa.	Kiskiminitas	7	85
Newton, Ala.	Choctawhatchee	5	52	Santa Rosa, N. Mex.	Pecos	10	153
Nicolaus, Calif.	Pea ther	10	160	Sapnerco, Colo.	Gunnison	10	.....
Noblesville, Ind.	White—West Fork	8	104	Sarah, Miss.	Coldwater	9	141
Norcross, Ga.	Chatahoochee	5	50	Savannah, Tenn.	Tennessee	8	113
Norfolk, Nebr.	Elkhorn	6	76	Scandia, Kans.	Republican	6	.....
North Platte, Nebr.	North Platte	6	75	Schenley, Pa.	Allegheny	7	87
Do	South Platte	6	75	Selma, Ala.	.....	5	56
North Stratford, N. H.	Connecticut	4	27	Seward, Pa.	Conecuh	7	85
Oklahoma City, Okla.	North Canadian	8	131	Seymour, Ind.	White—East Fork	8	105
Olean, N. Y.	Allegheny	7	85	Sharon, Pa.	Shenango	7	.....
Omaha, Nebr.	Missouri	7	82	Sherburne, N. Y.	Chenango	4	31
Oneonta, N. Y.	Susquehanna	4	34	Shoals, Ind.	White—East Fork	8	105
Orange, Tex.	Sabine	10	147	Shreveport, La.	Red	9	139
Oregon City, Oreg.	Willamette	11	165	Shubuta, Miss.	Chickasawhay	5	59
Oroville, Calif.	Feather	10	160	Sidney, Ohio	Miami	7	98
Osceola, Mo.	Osage	6	80	Simmesport, La.	Atchafalaya	10	146
Oswego, Kans.	Nesho	9	130	Sioux City, Iowa	Missouri	7	82
Otowi, N. Mex.	Rio Grande	10	154	Smithfield, N. C.	Neuse	5	41
Ottumwa, Iowa	Des Moines	6	66	Smithville, Tex.	Colorado	10	151
Overton, Oreg.	Platte	6	76	South Charleston, W. Va.	Kanawha	7	.....
Owensboro, Ky.	Ohio	8	122-123	South Newbury, Vt.	Connecticut	4	.....
Ozark, Ark.	Arkansas	9	133	Spencer, Ind.	West Fork	8	104
Ozark Beach, Mo.	White	.....	.....	Springbank, Ark.	Red	9	.....
Paduah, Ky.	Ohio	8	124	Springfield, Mass.	Connecticut	4	28
Paintsville, Ky.	Levisa Fork	7	95	Springfield, Ohio	Wad	7	98
Pamoa, Colo.	Garrison—North Fork	10	.....	Sullivan, Mo.	Meramec	6	68
Parkersburg, W. Va.	Ohio	8	116	Summersville, W. Va.	Gauley	7	.....
Parkers Landing, Pa.	Allegheny	7	86	Sumbury, Pa.	Susquehanna	4	35
Parkin, Ark.	St. Francis	6	141	Sutersville, Pa.	Youghiogheny	7	89
Pearl River, La.	Pearl	5	43	Swan Lake, Miss.	Tallahatchie	9	141
Pelzer, S. C.	Saluda	5	61	Tarboro, N. C.	Tar	5	40
Pennacook, N. H.	Contoocook	6	26	Tell City, Ind.	Ohio	8	122
Peoria, Ill.	Illinois	6	67	Terre Haute, Ind.	Wabash	8	108
Perkins, Okla.	Cimarron	9	129	The Dalles, Oreg.	Columbia	11	.....
Peru, Ill.	Illinois	6	66	Three Rivers, Tex.	Neuces	10	153
Peru, Ind.	Wabash	8	107	Tiffin, Ohio	Sandusky	4	25
Petersburg, Ind.	White	8	106	Tipp City, Ohio	Miami	7	99
Philadelphia, Pa.	Schuylkill	4	30	Topeka, Kans.	Kansas	6	78
Phillippi, W. Va.	Tygart	7	88	Towanda, Pa.	Susquehanna	4	35
Pickwick Dam, Tenn.	Tennessee	8	113	Tracy, Iowa	Des Moines	6	65
Pierre, S. Dak.	Missouri	6	81	Trenton, Mo.	Thompson Fork	6	79
Pikeon, Ohio	Scioto	7	96	Trenton, N. J.	Delaware	4	31
Pikeville, Ky.	Levisa Fork	7	95	Tribes Hill, N. Y.	Mohawk	4	29
Pine Bluff, Ark.	Arkansas	9	134	Trinidad, Tex.	Trinity	10	149
Piney Bluff, Ga.	Altamaha	5	49	Trinidad, Wash.	Columbia	11	166
Piqua, Ohio	Ohio	8	114	Tulsa, Okla.	Arkansas	9	133
Pittsburgh, Pa.	Stillwater	7	98	Tuscaloosa, Lock and Dam, Ala.	Black Warrior	5	57
Pleasant Hill, Ohio	Pemigewasset	4	26	Umatilla, Oreg.	Columbia	11	166
Plymouth, N. H.	Ohio	8	116	Umatilla, N. Y.	Susquehanna	4	34
Point Pleasant, W. Va.	Black	9	126	Union, Mo.	Bourbeuse	6	67
Poplar Bluff, Mo.	Wisconsin	6	63	Uniontown, Ky.	Ohio	8	123-124
Portage, Wis.	Delaware	4	30	Upper Sandusky, Ohio	Sandusky	4	25
Port Jervis, N. Y.	Grand	4	.....	Valley Junction, Tex.	Brazos	10	150
Portland, Oreg.	Willamette	11	165	Valley Park, Ark.	Meramec	6	68
Portsmouth, Ohio	Ohio	8	118	Van Buren, Ark.	Arkansas	9	133
Poston, S. C.	Pee Dee	5	.....	Vanceburg, Ky.	Ohio	8	.....
Prarie du Chien, Wis.	Mississippi	6	70	Vancouver, Wash.	Columbia	11	167
Priest River, Idaho	Clark Fork	10	163	Vandergrift, Pa.	Kiskiminitas	7	85
Prospect, Ohio	Scioto	7	96	Van Meter, Iowa	Raccoon	6	65
Pueblo, Colo.	Arkansas	9	.....	Vestal, N. Y.	Susquehanna	4	35
Quincy, Ill.	Mississippi	6	73	Vicksburg, Miss.	Mississippi	9	144

MISSISSIPPI SYSTEM—OHIO BASIN—Continued

1946	January	February	March	April	May	June	July	August	September	October	November	December	1946	January	February	March	April	May	June	July	August	September	October	November	December
WHITE RIVER AT PETERSBURG, IND. White—Wabash—Ohio [Elevation of gage zero, 400.00 feet, m.s.l. Flood stage, 16 feet]													WABASH RIVER AT BLUFFTON, IND. Wabash—Ohio [Elevation of gage zero, 793.01 feet, m.s.l. Flood stage, 10 feet]												
1...	17.1	4.6	10.6	10.2	3.8	8.0	4.8	2.5	1.5	0.8	1.5	4.5	1...	^b 7.2	^b 1.7	3.9	2.4	1.4	8.8	3.1	1.2	1.1	0.9	1.0	1.2
2...	17.3	4.8	11.5	9.3	6.7	13.0	3.6	2.5	1.7	.8	1.6	4.5	2...	^b 7.0	^b 1.7	5.1	2.4	1.4	7.5	3.0	1.1	1.1	.9	1.1	1.2
3...	17.3	4.9	11.9	8.6	8.3	11.3	3.0	2.5	1.5	.8	2.0	3.3	3...	^b 6.2	^b 1.6	5.0	2.2	1.4	7.0	2.3	1.1	.9	.9	1.1	1.2
4...	17.0	5.0	11.9	7.9	11.1	9.9	3.0	2.0	1.5	.8	2.2	3.0	4...	^b 6.2	^b 1.6	4.9	2.1	2.1	6.4	1.9	1.1	.9	.9	1.1	1.0
5...	16.9	5.0	11.2	7.0	13.0	8.4	3.0	1.9	1.5	.8	1.9	2.5	5...	^b 6.3	^b 1.6	3.2	2.0	2.1	6.0	1.7	1.1	.9	.9	1.1	1.0
6...	16.3	6.7	10.4	6.5	14.0	7.8	2.8	2.0	1.3	.7	1.7	2.2	6...	^b 6.1	^b 2.2	3.1	2.0	1.4	4.1	1.5	1.1	.9	.9	1.0	1.0
7...	14.3	8.0	9.7	6.1	13.7	7.2	2.6	2.5	1.3	.7	1.7	2.0	7...	^b 6.0	^b 2.2	3.2	2.0	1.4	2.4	1.5	1.0	.9	.8	1.0	1.0
8...	12.0	9.5	9.5	5.8	11.5	6.0	3.0	2.7	1.1	.7	1.6	1.9	8...	^b 5.9	^b 2.2	5.1	2.1	1.4	2.3	1.4	1.0	.9	.8	1.0	1.0
9...	11.8	10.7	10.0	5.5	9.7	5.5	2.8	2.7	1.1	.7	1.5	1.7	9...	^b 4.7	^b 2.1	5.1	1.9	1.4	1.9	1.5	1.0	.9	.8	.9	1.0
10...	12.5	10.8	10.5	5.2	9.0	5.1	2.8	2.7	1.1	.7	1.3	1.6	10...	^b 4.6	^b 2.0	4.0	1.9	1.4	1.8	2.6	1.0	1.0	.8	1.0	1.0
11...	13.1	10.4	10.5	5.0	9.0	4.6	2.6	2.0	1.4	.7	1.1	1.8	11...	^b 3.6	^b 2.0	3.0	1.8	2.0	1.8	2.7	1.0	1.0	.8	1.0	1.1
12...	14.0	10.0	10.7	5.0	8.3	4.3	3.0	2.0	1.2	.8	1.4	3.7	12...	^b 3.6	^b 1.6	3.0	1.8	2.0	1.7	1.8	1.0	1.0	1.0	1.1	1.1
13...	14.2	9.6	9.7	4.9	8.5	4.2	3.4	2.0	1.2	.7	1.5	6.8	13...	^b 3.5	^b 1.6	2.7	1.8	1.9	5.4	1.6	1.0	1.0	.9	1.0	2.7
14...	14.0	14.0	8.6	4.7	9.5	4.0	3.2	1.8	1.2	.7	1.5	9.2	14...	^b 3.1	^b 7.2	2.4	1.8	1.8	6.7	1.4	1.0	1.0	.9	1.0	2.6
15...	13.9	15.9	8.4	4.6	10.3	3.8	3.0	1.8	1.0	.7	1.5	10.3	15...	^b 3.0	^b 7.1	6.1	1.8	1.8	6.4	1.4	1.0	1.0	.9	1.0	2.5
16...	13.4	17.4	9.4	4.6	12.0	4.0	3.0	2.3	.9	.7	1.3	10.5	16...	^b 5.8	^b 8.4	6.6	1.9	3.2	5.1	1.3	1.0	.9	.9	1.1	2.4
17...	12.3	18.1	11.7	4.6	14.9	5.2	3.0	2.3	.9	.7	1.7	9.5	17...	^b 2.9	^b 6.3	7.0	1.9	4.4	3.0	1.2	1.1	.9	.9	1.1	2.0
18...	10.5	18.7	14.0	4.5	16.5	6.0	2.8	5.0	.9	.8	1.6	8.6	18...	^b 2.2	^b 6.2	8.8	1.9	4.4	2.3	1.2	1.0	.9	1.1	1.1	1.9
19...	8.9	19.4	16.0	4.7	17.1	5.5	2.8	4.6	.9	.8	1.5	7.5	19...	^b 2.4	^b 2.9	7.2	1.9	4.8	3.3	1.2	1.0	.9	1.0	1.0	^b 1.7
20...	7.8	19.9	17.2	4.6	17.6	5.5	2.8	4.5	.8	.8	1.5	6.6	20...	^b 2.3	^b 2.9	6.1	1.8	4.4	3.7	1.2	1.0	.9	1.0	1.0	^b 1.5
21...	7.3	19.7	18.0	4.5	18.4	6.6	2.8	4.1	.8	.8	1.7	6.0	21...	^b 2.3	^b 2.8	4.3	1.7	4.1	3.1	2.5	1.0	.9	1.0	1.0	^b 1.5
22...	6.7	18.7	18.3	4.3	19.2	6.4	2.7	4.1	.8	.8	1.7	4.6	22...	^b 2.2	^b 2.5	3.2	1.7	2.5	3.0	2.1	1.0	.9	1.1	1.0	^b 1.4
23...	6.4	17.4	18.4	4.2	19.9	6.0	4.5	3.8	.8	.8	1.6	4.2	23...	^b 2.1	^b 2.5	3.0	1.6	2.4	2.7	1.9	1.0	1.0	1.1	1.0	^b 1.3
24...	6.0	15.2	18.3	3.8	19.7	5.8	4.1	3.0	.8	.8	1.5	3.9	24...	^b 2.1	^b 2.4	3.4	1.4	2.0	2.5	1.5	1.0	.9	1.0	1.0	^b 1.4
25...	5.6	13.6	17.0	3.8	18.6	5.6	3.6	2.4	1.0	1.0	1.5	3.7	25...	^b 2.0	^b 2.4	4.2	1.4	2.0	2.3	1.5	1.0	.9	1.0	1.0	^b 1.3
26...	5.5	11.2	14.2	3.7	16.2	5.1	3.4	2.4	1.1	1.0	1.8	3.5	26...	^b 2.0	^b 2.5	4.2	1.4	2.2	2.0	1.3	1.0	.9	1.0	1.1	^b 1.3
27...	5.3	10.1	11.9	3.4	13.0	4.7	3.4	2.2	1.1	.9	3.3	3.5	27...	^b 2.0	^b 4.3	3.1	1.3	5.0	1.6	1.3	1.0	.9	1.0	1.6	^b 1.3
28...	5.2	10.0	10.7	3.3	11.0	4.2	2.7	2.0	1.0	.9	4.5	3.5	28...	^b 1.9	^b 4.2	2.9	1.3	8.6	1.8	1.2	.9	.9	1.0	1.6	1.4
29...	5.0	.....	10.5	3.3	10.3	4.0	2.7	2.0	.9	.9	4.5	4.1	29...	^b 1.9	.....	2.7	1.2	9.6	2.3	1.2	1.0	.9	1.0	1.3	1.4
30...	4.7	.....	10.5	3.3	9.8	3.4	2.7	1.8	.8	.9	4.4	5.5	30...	^b 1.8	.....	2.6	1.3	11.2	3.5	1.1	1.1	.9	.9	1.2	1.4
31...	4.6	.....	10.7	.....	8.7	.....	2.7	1.7	.....	.9	.....	6.7	31...	^b 1.8	.....	2.5	.....	10.1	.....	1.1	1.1	.....	.9	.....	^b 1.4
M'n..	10.9	12.1	12.3	5.2	12.6	6.0	3.1	2.6	1.1	.8	1.9	4.9	M'n..	4.0	3.1	4.2	1.6	3.4	3.8	1.7	1.0	.9	.9	1.1	1.5

1946	January	February	March	April	May	June	July	August	September	October	November	December	1946	January	February	March	April	May	June	July	August	September	October	November	December
WHITE RIVER AT HAZLETON, IND. White—Wabash—Ohio [Elevation of gage zero, 383.26 feet, m.s.l. Flood stage, 16 feet]													WABASH RIVER AT WABASH, IND. Wabash—Ohio [Elevation of gage zero, 642.66 feet, m.s.l. Flood stage, 12 feet]												
1...	17.3	6.1	11.5	11.7	4.4	9.6	5.6	3.1	2.3	1.3	1.7	5.2	1...	12.6	^c 4.3	7.5	4.1	2.8	8.7	4.6	2.5	2.0	1.9	2.2	2.6
2...	17.5	6.1	12.2	11.0	6.2	^b 13.0	5.4	3.0	2.2	1.3	1.9	5.0	2...	10.6	^c 4.0	6.8	4.1	2.9	10.0	4.1	2.3	2.0	1.9	2.5	2.4
3...	17.5	6.3	12.7	10.4	9.3	14.4	4.5	2.9	2.1	1.3	2.1	4.1	3...	8.8	^c 3.7	6.6	4.0	2.8	9.2	4.1	2.3	2.0	1.8	2.4	2.4
4...	17.7	6.3	12.9	9.6	11.0	12.0	4.2	2.7	2.0	1.3	2.5	3.6	4...	8.2	^c 3.6	6.2	3.9	2.8	7.5	3.7	2.3	2.0	1.9	2.5	2.4
5...	17.7	6.3	12.8	8.9	13.2	10.4	4.0	2.5	2.4	1.3	2.5	3.3	5...	7.6	^c 3.4	5.7	3.7	2.8	6.2	3.3	2.3	1.9	2.0	2.4	2.4
6...	17.6	6.8	12.1	8.2	14.2	9.5	3.9	2.7	2.4	1.3	2.3	3.0	6...	9.2	^c 4.3	5.1	3.6	2.8	4.9	3.0	2.3	1.9	1.9	2.3	2.3
7...	16.9	8.6	11.3	7.7	14.8	8.8	3.8	2.9	2.3	1.3	2.1	2.7	7...	9.4	^c 4.9	5.1	3.6	2.9	4.2	2.9	2.3	1.9	1.9	2.3	2.3
8...	14.9	9.8	10.9	7.4	13.9	8.0	3.7	3.1	2.3	1.3	2.1	2.5	8...	7.9	^c 4.4	7.5	3.6	2.9	3.9	2.8	2.2	2.0	1.9	2.3	2.3
9...	13.3	11.2	11.1	7.0	12.0	7.2	3.7	3.3	2.2	1.3	1.9	2.4	9...	8.6	^c 4.1	7.3	3.6	2.9	3.6	3.4	2.3	2.0	2.0	2.2	2.3
10...	13.6	12.0	11.3	6.7	10.6	6.6	3.4	3.1	2.2	1.3	1.8	2.3	10...	8.5	^c 3.6	6.3	3.5	2.9	3.5	3.1	2.2	2.2	1.9	2.3	2.3
11...	14.0	11.6	11.7	6.5	10.5	6.2	3.4	2.8	2.1	1.3	1.8	2.3	11...	7.0	^c 3.7	5.5	3.4	3.5	3.3	4.2	2.2	2.3	1.9	2.3	2.4
12...	14.7	11.4	11.7	6.4	10.2	5.9	3.4	2.4	2.1	1.3	1.8	2.7	12...	6.2	^c 3.6	4.8	3.4	4.6	3.3	3.6	2.2	2.1	1.9	2.3	2.6
13...	15.2	11.0	11.3	6.2	9.5	5.6	4.0	2.2	2.0	1.3	1.8	5.9	13...	7.9	^c 3.5	4.5	3.3	4.2							

UNITED STATES DEPARTMENT OF COMMERCE

CHARLES SAWYER, *Secretary*

WEATHER BUREAU

F. W. REICHELDERFER, *Chief*

DAILY RIVER STAGES

AT RIVER GAGE STATIONS ON THE
PRINCIPAL RIVERS OF THE
UNITED STATES

REFERENCE
DO NOT CIRCULATE

Volume XLIII

1947

Community Affairs File



UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON

DAILY RIVER STAGES—1947

INTRODUCTION

This volume, containing the daily river stages for 1947, is the forty-third of a series of Daily River Stages on the Principal Rivers of the United States, the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.

II. Stages of the Mississippi River and of its Principal Tributaries, except the Ohio River, 1860 to 1889.

III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.

DAILY RIVER STAGES AT RIVER GAGE STATIONS ON THE PRINCIPAL RIVERS OF THE UNITED STATES

Volume IV. 1890 to 1892	Volume XIV. 1916	Volume XXIV. 1926	Volume XXXIV. 1936
V. 1893 to 1895	XV. 1917	XXV. 1927	XXXV. 1937
VI. 1896 to 1899	XVI. 1918	XXVI. 1928	XXXVI. 1938
VII. 1900 to 1904	XVII. 1919	XXVII. 1929	XXXVII. 1939
VIII. 1905 and 1906	XVIII. 1920	XXVIII. 1930	XXXVIII. 1940 and 1941
IX. 1907 and 1908	XIX. 1921	XXIX. 1931	XXXIX. 1942 and 1943
X. 1909 and 1910	XX. 1922	XXX. 1932	XL. 1944
XI. 1911 and 1912	XXI. 1923	XXXI. 1933	XLI. 1945
XII. 1913 and 1914	XXII. 1924	XXXII. 1934	XLII. 1946
XIII. 1915	XXIII. 1925	XXXIII. 1935	

Volumes XXXIII to XLIII can be bought from the Superintendent of Documents, Washington, D. C.; other volumes are out of print and cannot be supplied.

The river stages are the vertical distances, in feet and tenths, of the water surface above or below the zero of the gage. The zero has, as a rule, been set at or near the lowest known water.

Gage readings are usually made at 8 a.m., seventy-fifth meridian time, east of the Continental Divide, and at 7 a.m., local time, west of the divide.

Extreme stages for a month, or important crest stages, not observed at the regular time for reading the gage, are printed as a note at the foot of the table or page. This practice was begun in 1907.

In some cases the zero planes of gages have been changed, either through accident or through necessary removals. The stations at which changes have occurred are given in a table headed "Corrigenda," and the corrections required to reduce previous readings to the zero now in use are also given in the table if they have not been previously published.

The country is divided into districts, and each district has a designated center at which the administrative and forecasting work is carried on. The following table shows the centers and their districts.

ADMINISTRATIVE AND FORECASTING CENTERS AND THEIR DISTRICTS

Albany, N. Y.....	Hudson River and tributaries.
Albuquerque, N. Mex.....	Pecos River in New Mexico; Rio Grande and tributaries at and above Elephant Butte Reservoir Dam, N.Mex.; Canadian River and tributaries in New Mexico; and the San Juan River and tributaries.
Allentown, Pa.....	Lackawaxen River and the Lehigh River above but not including Easton, Pa.
Asheville, N. C.....	French Broad River and tributaries above North Carolina-Tennessee State line.
Atlanta, Ga.....	Apalachicola, Altamaha, St. Marys, and Satilla Rivers and tributaries.
Augusta, Ga.....	Savannah and Ogeechee Rivers and tributaries.
Austin, Tex.....	Colorado River (of Texas) and tributaries.
Bakersfield, Calif.....	Kern River and tributaries; Buena Vista Lake drainage and Poso Creek.
Billings, Mont.....	Yellowstone River and tributaries.
Binghamton, N. Y.....	Susquehanna River and tributaries above Towanda, Pa.
Bismarck, N. Dak.....	Missouri River and tributaries from and including Fort Peck Dam to and including Bismarck, N. Dak., except the Milk and Yellowstone.
Boise, Idaho.....	Snake River and tributaries above and including Lewiston, Idaho.
Brownsville, Tex.....	Rio Grande below Laredo, Tex.

Burlington, Iowa.....	Mississippi River and tributaries, except the Des Moines above Eldon, Iowa, from and including Dam No. 18 and upstream gage to but not including Dam No. 24.
Cairo, Ill.....	Ohio River below Dam No. 50 at Fords Ferry, Ky.; Mississippi River from and including Cape Girardeau, Mo., to including New Madrid, Mo.; Tennessee River and tributaries below Decatur, Ala.
Charleston, S. C.....	Waccamaw, Black, Yadkin, Pee Dee Rivers and tributaries.
Chattanooga, Tenn.....	Tennessee River and tributaries from below Knoxville, Tenn., to and including Decatur, Ala.
Cincinnati, Ohio.....	Ohio River and tributaries, except the Scioto River, from below Dam No. 30 to and including the mouth of the Kentucky River.
Columbia, S. C.....	Santee River and tributaries.
Columbus, Ohio.....	Sandusky and Scioto Rivers.
Concord, N. H.....	Merrimack River and tributaries.
Dallas, Tex.....	Trinity River and tributaries above Long Lake, Tex.
Davenport, Iowa.....	Mississippi River and tributaries from but not including Dam No. 10, to but not including Dam No. 18.
Del Rio, Tex.....	The Rio Grande and tributaries from but not including the Pecos River to and including Laredo, Tex.
Denver, Colo.....	North Platte and South Platte Rivers and tributaries at and above North Platte, Nebr.
Des Moines, Iowa.....	Des Moines River and tributaries above Eldon, Iowa.
Elkins, W. Va.....	Tygart River and tributaries at and above the Tygart River Dam, W. Va.
El Paso, Tex.....	The Rio Grande and tributaries from below Elephant Butte Reservoir Dam, N. Mex., to and including the mouth of the Pecos River; the Pecos River in Texas.
Eureka, Calif.....	California Coast drainage from Point Delgada northward to but not including the Klamath River.
Evansville, Ind.....	Ohio River and tributaries, except the Wabash River, from below Hawesville, Ky., to and including Dam No. 50 Fords Ferry, Ky.
Fargo, N. Dak.....	Red River of the North and tributaries below the Canadian line.
Fort Wayne, Ind.....	Maumee River and tributaries.
Fresno, Calif.....	San Joaquin River and tributaries above the mouth of the Tuolumne River.
Grand Junction, Colo.....	Colorado River and tributaries above but not including the mouth of the San Juan.
Grand Rapids, Mich.....	Grand River and tributaries below Grand Ledge, Mich.
Harrisburg, Pa.....	Susquehanna River and tributaries at and below Towanda, Pa.
Hartford, Conn.....	Connecticut River and tributaries.
Helena, Mont.....	Missouri River and tributaries above Fort Peck Dam; Milk River.
Houston, Tex.....	Neches and Brazos Rivers; Trinity River at and below Long Lake, Tex.
Huntington, W. Va.....	Ohio River and tributaries from below Dam No. 23 to and including Dam No. 30, Greenup, Ky.
Indianapolis, Ind.....	Wabash River and tributaries.
Jackson, Miss.....	Pascagoula and Pearl Rivers and tributaries.
Kansas City, Mo.....	Missouri River and tributaries, except the Kansas River at and above Lawrence, Kans., from the mouth of the Platte River to and including Lexington, Mo.
Knoxville, Tenn.....	Tennessee River and tributaries at and above Knoxville, Tenn., except French Broad River and tributaries above North Carolina-Tennessee State line.
La Crosse, Wis.....	Mississippi River and tributaries from and including Dam No. 2 to and including Dam No. 10; Lake Superior drainage from but not including St. Louis River eastward to Wisconsin-Michigan State line (including Montreal River), and Lake Michigan drainage from and including Menominee River southward to Wisconsin-Illinois State line.
Lake Charles, La.....	Sabine, Calcasieu, Mermentau, and Vermillion Rivers.
Lansing, Mich.....	Grand River and tributaries at and above Grand Ledge, Mich.; Saginaw River and tributaries.
Little Rock, Ark.....	Arkansas River and tributaries below Van Buren, Ark.; White River and tributaries; Ouachita River and tributaries in Arkansas.
Los Angeles, Calif.....	California Coast drainage south of Point Buchon; the Salton Sea basin; Great basin in California, south of and including Mono Lake drainage.
Louisville, Ky.....	Ohio River and tributaries from below the mouth of the Kentucky to and including Hawesville, Ky.
Medford, Oreg.....	Oregon and California Coast drainage, from and including Umpqua River basin, southward to and including Klamath River and tributaries; the Great Basin in Oregon, except the Quinn River.
Memphis, Tenn.....	Mississippi River from below New Madrid, Mo., to the mouth of the White River; St. Francis River and tributaries.
Minneapolis, Minn.....	Mississippi River and tributaries above but not including Dam No. 2.
Mobile, Ala.....	Tombigbee River and tributaries.
Montgomery, Ala.....	Alabama River and tributaries.
Nashville, Tenn.....	Cumberland River and tributaries.
New Orleans, La.....	Mississippi River below Natchez, Miss.; Red River below Alexandria, La.; Ouachita and Black Rivers and tributaries in Louisiana; Atchafalaya River.
Norfolk, Nebr.....	Elkhorn River and tributaries; Omaha Creek.
Oklahoma City, Okla.....	Canadian River and tributaries east of the eastern boundary of New Mexico.
Omaha, Nebr.....	Missouri River and tributaries from below Sioux City, Iowa, to and including the mouth of the Platte, except the North Platte and the South Platte at and above North Platte, Nebr., and excluding the Elkhorn River.
Parkersburg, W. Va.....	Ohio River and tributaries from below Dam No. 13 to and including Dam No. 23, near Apple Grove, Ohio.
Pensacola, Fla.....	Escambia and Choctawhatchee Rivers and tributaries.
Philadelphia, Pa.....	Delaware River and tributaries, except the Lackawaxen, the Lehigh above Easton, Pa., and the Schuylkill above Perkiomen Creek.
Phoenix, Ariz.....	Gila River and tributaries at and above Gila Bend, Ariz., and the Colorado River and tributaries from but not including the San Juan to but not including the mouth of the Virgin River.
Pittsburgh, Pa.....	Ohio River and tributaries at and above Dam No. 13, except the Tygart River at and above Tygart River Dam, W. Va.
Portland, Maine.....	Rivers in Maine.
Portland, Oregon.....	Columbia River and tributaries below Grand Coulee Dam, except the Snake River at and above Lewiston, Idaho; Oregon Coast drainage north of the Umpqua River basin.
Pueblo, Colo.....	Arkansas River and tributaries in Colorado.

Raleigh, N. C.....	The rivers and their tributaries that enter the Atlantic Ocean on the North Carolina coast.
Reading, Pa.....	Schuylkill River and tributaries above Perkiomen Creek.
Richmond, Va.....	James River and tributaries.
Sacramento, Calif.....	Rivers in the central valleys of California, except the San Joaquin River above the mouth of the Tuolumne River.
St. Louis, Mo.....	Mississippi River and tributaries from and including Dam No. 24 and its upstream gage to but not including Cape Girardeau, Mo., except the Osage River in Kansas and the Missouri River at and above Lexington, Mo.
Salt Lake City, Utah....	Great Salt Lake basin.
San Antonio, Tex.....	Guadalupe, Nueces, and the San Antonio Rivers and tributaries.
San Francisco, Calif....	California Coast drainage, except rivers in the Central Valley of California, from Point Delgada to Point Buchon.
Seattle, Wash.....	Puget Sound and Washington Coast drainage, except the Columbia River.
Shreveport, La.....	Red River and tributaries at and above Alexandria, La.
Sioux City, Iowa.....	Missouri River and tributaries from below Bismarck, N. Dak., to and including Sioux City, Iowa.
Spokane, Wash.....	Columbia River and tributaries above and including Grand Coulee Dam.
Topeka, Kans.....	Kansas River and tributaries at and above Lawrence, Kans., Osage River and tributaries in Kansas.
Tulsa, Okla.....	Arkansas River and tributaries, except the Canadian River, from the Kansas-Colorado line to and including Van Buren, Ark.
Vicksburg, Miss.....	Mississippi River from the mouth of the White River to and including Natchez, Miss.; Yazoo and Big Black Rivers and tributaries.
Washington, D. C.....	Potomac and Rappahannock Rivers and tributaries.
Yuma, Ariz.....	Colorado River and tributaries from and including the mouth of the Virgin River to the Arizona-Mexico border, and the Gila River below Gila Bend, Ariz.

RIVER STATIONS, ARRANGED BY DRAINAGE AREAS, AND MISCELLANEOUS INFORMATION PERTAINING THERETO—Con.

Station	River	Length of record ¹	Elevation of gage zero above mean sea level ²	Distance of gage above mouth of river ³	Drainage area above gage ⁴	Flood stage	Extreme stages from gage readings ⁵			
							Highest	Date	Lowest	Date
MISSISSIPPI SYSTEM—Continued										
Ohio Basin—Continued										
		Years	Feet	Miles	Sq. miles	Feet	Feet	Date	Feet	Date
Prospect, Ohio.....	Scioto.....	41	891.72	172.2	554	10	15.0	Mar. 22, 1927	.2	Oct. 2, 1910
Columbus, Ohio.....	.....do.....	50	700.03	131.9	1,613	22	22.9	Mar. 25, 1913	-.8	July 27, 1923
Circleville, Ohio.....	.....do.....	36	643.03	100.4	3,217	14	28.2	Mar. 26, 1913	1.7	Aug. 13, 1944
Chillicothe, Ohio.....	.....do.....	40	594.02	70.4	3,847	16	39.8	.....do.....	.85	Sept. 27, 1944
Pike, Ohio.....	.....do.....	5	533.52	35.0	5,824	15	27.8	Mar. 7, 1945	.6	Dec. 22, 1944
Kings Mills, Ohio.....	Little Miami.....	23	587.10	28.1	1,048	17	33.7	.....do.....	.5	July 3, 1914
Cynthiana, Ky.....	South Fork.....	31	.....	46.0	64	20	22.6	Dec. 24, 1921	.5	June 15, 1934
Farmers, Ky.....	Licking.....	31	646.44	172.0	782	25	31.1	Feb. 9, 1918	1.0	July 13-14, 1945
Falmouth, Ky.....	.....do.....	61	511.16	51.2	2,267	28	41.4	Jan. 23, 1937	-.1	Sept. 6, 1930
Pleasant Hill, Ohio.....	Stillwater.....	32	896.60	29.2	502	13	17.5	Jan. 15, 1937	.6	July 26, 1941
Springfield, Ohio.....	Mad.....	34	881.42	23.6	477	11	15.1	.....do.....	1.2	Dec. 4, 1944
Brookville, Ind.....	Whitewater.....	30	595.73	27.0	1,230	20	25.56	Feb. 26, 1929	.1	Sept. 25, 1941
Sidney, Ohio.....	Miami.....	29	924.65	134.8	545	12	14.2	Mar. 21, 1927	-.2	Sept. 23, 1940
Piqua, Ohio.....	.....do.....	37	844.00	122.1	850	17	29.1	Mar. 25, 1913	.7	Sept. 17, 1941
Tipp City, Ohio.....	.....do.....	25	786.77	104.5	955	27	13.8	Mar. 21, 1927	.4	Oct. 3, 1941
Dayton, Ohio.....	.....do.....	55	721.01	84.5	2,515	21	31.7	Mar. 25, 1913	-.1	Sept. 28, 1941
Miamisburg, Ohio.....	.....do.....	25	678.44	68.6	2,719	22	20.6	Jan. 22, 1937	-.3	Oct. 17, 1929
Franklin, Ohio.....	.....do.....	25	658.41	61.3	2,731	16	16.7	.....do.....	.0	Nov. 5, 1944
Middletown, Ohio.....	.....do.....	25	621.00	52.3	3,158	15	19.0	Feb. 27, 1929	.0	Oct. 8, 1924
Hamilton, Ohio.....	.....do.....	38	560.00	35.3	3,637	17	43.1	Mar. 26, 1913	-1.7	Oct. 21, 1932
Hazard, Ky.....	North Fork.....	23	837.57	96.0	442	20	33.8	May 30, 1927	-.4	Aug. 1, 1925
Jackson, Ky.....	.....do.....	42	697.67	.....	.....	29	43.1	Feb. 4, 1939	.3	Aug. 14-17, 1944
Lock No. 14, Heidelberg, Ky.....	Kentucky.....	31	627.20	249.3	2,639	30	35.6	.....do.....	4.8	Nov. 10, 1930
Lock No. 10, Ford, Ky.....	.....do.....	42	556.80	176.3	3,948	30	35.1	Mar. 29, 1913	9.0	Aug. 9-14, 1944
Lock No. 7, Highbridge, Ky.....	.....do.....	47	503.66	117.0	5,024	30	42.2	Jan. 23, 1937	4.7	Nov. 24, 1912
Lock No. 4, Frankfort, Ky.....	.....do.....	62	462.17	65.0	5,396	31	47.56	Jan. 25, 1937	3.2	Nov. 1, 1908
Bowling Green, Ky.....	Barren.....	24	409.83	37.6	1,870	28	1240.7	Jan. 23, 1937	12.0	Oct. 18, 1923
Dundee, Ky.....	Rough.....	8	393.18	62.5	752	25	.....	.....	.....	.....
Munfordville, Ky.....	Green.....	23	451.70	223.0	1,707	28	50.4	Jan. 23, 1937	1.7	Oct. 4, 1928
Lock No. 6, Brownsville, Ky.....	.....do.....	31	403.26	180.6	2,751	28	54.7	Jan. 24, 1937	6.1	Sept. 10, 1919
Lock No. 4, Woodbury, Ky.....	.....do.....	49	373.80	149.5	5,446	33	59.0	.....do.....	5.0	Sept. 17, 1902
Lock No. 2, Rumsey, Ky.....	.....do.....	49	343.64	62.8	7,681	34	54.42	Jan. 31, 1937	3.7	July 28, 1902
Anderson, Ind.....	West Fork.....	37	825.02	242.6	428	10	22.9	Mar. 25, 1913	3.8	June 19, 1918
Noblesville, Ind.....	.....do.....	34	738.16	215.1	844	14	18.8	Jan. 16, 1937	3.0	Aug. 29, 1914
Indianapolis, Ind.....	.....do.....	37	672.92	185.3	1,590	12	29.5	Mar. 26, 1913	2.0	Sept. 17, 1941
Spencer, Ind.....	.....do.....	22	526.04	.....	2,980	14	23.2	Jan. 16, 1937	.9	Oct. 1, 1941
Elliston, Ind.....	.....do.....	40	472.94	78.2	4,470	18	31.3	Mar. 27, 1913	5.3	Oct. 22-Nov. 5, 1944
Edwardsport, Ind.....	.....do.....	25	433.20	32.6	4,995	12	25.0	May 22, 1943	1.7	Jan. 2, 1945
Seymour, Ind.....	East Fork.....	25	550.67	167.6	2,292	14	19.5	Jan. 16, 1937	.3	Aug. 22, 1936
Williams, Ind.....	.....do.....	27	472.56	79.2	4,584	10	25.0	Jan. 25, 1937	-2.0	Jan. 1, 1931
Shoals, Ind.....	.....do.....	40	442.21	56.0	4,828	25	42.2	Mar. 28, 1913	1.2	Aug. 24, 1936
Petersburg, Ind.....	White.....	13	400.00	47.8	11,100	16	28.1	Jan. 21, 1937	.0	Aug. 26, 1936
Hazleton, Ind.....	.....do.....	24	383.26	18.9	11,200	16	31.6	Jan. 22, 1937	.5	Sept. 30, 1941
Bluffton, Ind.....	Wabash.....	37	793.01	421.8	555	10	20.0	Mar. 26, 1913	.2	July 26, 1934
Wabash, Ind.....	.....do.....	25	642.66	.....	1,740	12	24.8	May 18, 1943	1.7	Aug. 9, 1934
Peru, Ind.....	.....do.....	3	622.73	378.0	2,660	20	.....	.....	.....	.....
Logansport, Ind.....	.....do.....	30	573.28	343.2	3,860	17	25.3	Mar. 26, 1913	2.2	Dec. 4, 1914
La Fayette, Ind.....	.....do.....	34	504.14	301.4	7,324	11	28.4	May 19, 1943	.3	Sept. 25, 1941
Covington, Ind.....	.....do.....	21	473.97	260.5	8,399	16	32.4	May 20, 1943	1.2	Oct. 5, 1928
Terre Haute, Ind.....	.....do.....	49	445.78	204.4	12,333	14	31.3	Mar. 27, 1913	-2.0	Feb. 6, 1892
Riverton, Ind.....	.....do.....	9	414.65	.....	13,100	.....	26.4	Mar. 28, 1913	.0	Oct. 1, 1941
Vincennes, Ind.....	.....do.....	31	394.43	117.2	13,840	16	29.0	May 22, 1943	1.2	June 22, 1934
Mount Carmel, Ill.....	.....do.....	64	371.46	83.9	28,506	17	31.0	Mar. 30, 1913	-.2	Oct. 9, 1940
New Harmony, Ind.....	.....do.....	14	353.20	44.0	29,160	15	24.4	Jan. 30, 1937	-.2	Sept. 30, 1941
New River, Tenn.....	New.....	40	1,092.67	8.0	383	18	1541.2	Mar. 23, 1929	.....	.....
Rock Island, Tenn.....	Caney Fork.....	37	647.41	90.3	1,656	30	40.6	.....do.....	.0	Dec. 6, 1944
Williamsburg, Ky.....	Cumberland.....	40	892.40	592.7	1,673	19	30.4	Mar. 25, 1929	-2.5	Sept. 16, 1919
Burnside, Ky.....	.....do.....	63	585.25	518.4	4,949	50	69.4	Mar. 24, 1929	-1.6	Nov. 8, 1895
Colina, Tenn.....	.....do.....	44	489.47	383.1	7,323	40	57.11	Dec. 29, 1926	-.2	Oct. 6, 1911
Carthage, Tenn.....	.....do.....	63	437.87	308.4	10,754	40	58.7	Dec. 30, 1926	-.4	Nov. 16, 1902
Nashville, Tenn.....	.....do.....	74	368.17	192.6	12,878	40	56.2	Jan. 1, 1927	-.1	Sept. 14, 1887
Clarksville, Tenn.....	.....do.....	47	330.95	127.0	14,504	46	65.55	Jan. 25, 1937	-1.0	Sept. 18, 1913
Lock F. Eddyville, Ky.....	.....do.....	30	289.61	43.6	17,500	50	76.9	Jan. 26, 1937	-.7	Oct. 14, 1894
Mendota, Va.....	North Fork.....	42	1,330.56	38.3	530	8	17.5	June 14, 1907	.3	Oct. 13, 1933
Elizabethton, Tenn.....	Watauga.....	38	1,486.23	24.4	665	14	20.9	Aug. 14, 1940	1.0	Sept. 27, 1937
Bluff City, Tenn.....	South Fork.....	48	1,368.35	34.4	813	12	15.0	May 22, 1901	-.2	Sept. 9, 1925
Kingsport, Tenn.....	.....do.....	22	1,184.31	5.7	1,931	14	18.8	Aug. 14, 1940	-.2	Jan. 28, 1940
Cherokee Dam (Head Water), Tenn.....	Holston.....	6	980.00	52.3	3,428	95	94.4	May 11, 1944	10.8	Dec. 20, 1946
Emberville, Tenn.....	Melchuck.....	27	1,519.30	89.0	805	8	18.6	Aug. 13, 1940	.5	Jan. 3, 1940
Asheville, N. C.....	French Broad.....	45	1,959.90	147.3	949	6	25.6	July 16, 1916	.0	Nov. 1, 1904
Hot Springs, N. C.....	.....do.....	14	1,311.55	108.6	1,570	8	16.1	Aug. 30, 1940	2.1	Sept. 28, 1936
Douglas Dam (Head Water), Tenn.....	.....do.....	5	920.00	32.3	4,541	82	80.8	Apr. 26, 1944	9.2	Dec. 19, 1946
Bryson City, N. C.....	Tuckasegee.....	50	1,716.54	12.6	655	9	15.96	Aug. 30, 1940	.5	Sept. 10, 1925
Fontana Dam (Head Water), N. C.....	Little Tennessee.....	3	1,530.00	61.0	1,571	180	178.05	June 5, 1946	38.4	Nov. 1, 1947
Morris Dam (Head Water), Tenn.....	Clinch.....	12	930.00	79.8	2,912	90	101.1	Feb. 11, 1937	4.8	Jan. 14, 1940
Prospect, Tenn.....	Elk.....	14	563.29	41.5	1,784	21	33.2	Jan. 9, 1946	1.2	Oct. 7, 1936
Columbia, Tenn.....	Duck.....	41	535.52	132.8	1,208	32	43.1	Mar. 25, 1929	1.3	July 9, 1927
Knoxville, Tenn.....	Tennessee.....	65	797.38	645.1	8,963	20	38.9	Feb. 26, 1875	-3.6	Sept. 11, 1925
Kingston, Tenn.....	.....do.....	13	700.00	568.1	12,470	51	45.4	Mar. 9, 1942	3.5	Oct. 8, 1935
Chickamauga Dam (Upper Lock), Tenn.....	.....do.....	8	630.00	471.0	20,790	55	54.97	Apr. 6, 1940	43.2	Jan. 21, 1942
Chattanooga, Tenn.....	.....do.....	74	621.12	464.2	21,400	30	53.8	Mar. 1, 1875	.0	Sept. 11-14, 1881
Guntersville, Ala.....	.....do.....	44	550.00	358.0	24,340	45	35.8	Mar. 10, 1917	-2.5	Sept. 8, 1930
Decatur, Ala.....	.....do.....	71	534.30	305.0	26,900	25	27.5	Apr. 7, 1886	-.4	Sept. 7-13, 1919
Florence, Ala.....	.....do.....	76	401.12	256.7	30,810	18	32.5	Mar. 19, 1897	-3.0	Oct. 8, 1925
Savannah, Tenn.....	.....do.....	42	300.00	189.9	33,140	80	92.7	Jan. 2, 1927	38.8	Sept. 8, 1925
Perryville, Tenn.....	.....do.....	11	300.00	134.9	34,550	78	73.5	Jan. 14, 1946	26.7	Nov. 17, 1931
Johnsonville, Tenn.....	.....do.....	72	300.00	100.5	38,520	77	70.4	Mar. 24, 1897	18.9	Sept. 11, 1925
Kentucky Dam (Upper Lock), Ky.....	.....do.....	2	335.00	22.4	40,200	40	25.3	Apr. 28, 1946	2.8	Nov. 10, 1944
Paducah, Ky.....do.....	12	286.35	21.8	40,200	34	62.4	Feb. 2, 1937	10.6	Jan. 13, 1942

See footnotes at end of table.

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North Platte, Nebr.	South Platte	6	78	Santa Rosa, N. Mex.	Pecos	11	161
Do.	Connecticut	4	29	Saginaw, Colo.	Gunnison	10	149
North Stratford, N. H.	North Canadian	9	138-139	Sarah, Miss.	Tennessee	8	119
Oklahoma City, Okla.	Allegheny	7	89	Savannah, Tenn.	Republican	6
Olean, N. Y.	Missouri	7	86	Scandia, Tenn.	Allegheny	7	91
Omaha, Nebr.	Susquehanna	4	36	Schenley, Pa.	Alabama	5	59
Oneonta, N. Y.	Sabine	10	155	Selma, Va.	Conemaugh	7	89
Orange, Tex.	Willamette	11	173	Seward, Pa.	White—East Fork	8	108
Oregon City, Oreg.	Feather	11	168	Seymour, Ind.	Shenango	7
Oroville, Calif.	Osage	7	83	Sharpsville, Pa.	Chenango	4	33
Oscola, Mo.	Neosho	9	137	Sherburne, N. Y.	White—East Fork	8	108
Oswego, Kans.	Rio Grande	11	162	Shoals, Ind.	Red	10	146
Otowi, N. Mex.	Des Moines	6	68	Shreveport, La.	Chickasawhay	6	62
Ottumwa, Iowa	Platte	6	79	Shubuta, Miss.	Miami	8	102
Overton, Nebr.	Ohio	9	129	Sidney, Ohio	Atchafalaya	10	154
Owensboro, Ky.	Arkansas	10	141	Slimesport, La.	Missouri	7	85
Ozark, Ark.	Ohio	9	131	Slous City, Iowa	Neuse	5	43
Paducah, Ky.	Tennessee	8	120	Smithfield, N. C.	Colorado	10	159
Paducah, Ky.	Levisa Fork	7	99	Smithville, Tex.	Kanawha	7
Paintsville, Ky.	Gunnison—North Fork	11	South Charleston, W. Va.	Connecticut	4
Panola, Colo.	Ohio	9	122	Spencer, Ind.	West Fork	8	107
Parkersburg, W. Va.	Allegheny	7	90	Springbank, Ark.	Red	10
Parkers Landing, Pa.	Pearl	10	149	Springfield, Mass.	Connecticut	4	30
Parklin, Ark.	Pee Dee	6	64	Springfield, Ohio	Mad	8
Pearl River, La.	Pee Dee	5	45	Sullivan, Mo.	Heramec	6	70
Pee Dee, S. C.	Saluda	5	46	Summersville, W. Va.	Gauley	7
Pelzer, S. C.	Contoocook	4	28	Sunbury, Pa.	Susquehanna	4	38
Penacook, N. H.	Illinois	6	69	Sutersville, Pa.	Youghogheny	7	93
Peoria, Ill.	Cimarron	9	136	Swan Lake, Miss.	Tallahatchie	10	149
Perkins, Okla.	Tennessee	8	119	Tarboro, N. C.	Tar	5	42
Perryville, Tenn.	Illinois	6	69	Tell City, Ind.	Ohio	9	129
Peru, Ind.	Wabash	8	109	Terre Haute, Ind.	Wabash	8	110
Petersburg, Ind.	White	8	108				

MISSISSIPPI SYSTEM—OHIO BASIN—Continued

1947	January	February	March	April	May	June	July	August	September	October	November	December	1947	January	February	March	April	May	June	July	August	September	October	November	December
WABASH RIVER AT LOGANSPOUT, IND. Wabash—Ohio [Elevation of gage zero, 573.28 feet, m.s.l. Flood stage, 17 feet]													WABASH RIVER AT COVINGTON, IND. Wabash—Ohio [Elevation of gage zero, 473.97 feet, m.s.l. Flood stage, 16 feet]												
1...	3.8	10.2	^b 3.7	4.8	11.1	4.8	3.7	3.1	3.0	3.0	3.5	3.1	1...	4.1	16.2	^c 5.6	8.9	18.3	9.9	6.4	3.7	3.6	3.8	3.8	3.9
2...	3.6	8.7	^b 3.7	4.6	10.2	8.2	3.5	3.1	3.0	2.9	3.4	3.3	2...	4.3	17.4	^c 5.4	8.5	19.9	9.6	5.7	3.6	3.5	3.7	4.0	3.6
3...	3.4	6.9	^b 3.5	4.7	9.6	¹ 12.1	3.4	3.1	3.0	2.9	3.4	3.2	3...	4.9	18.0	4.6	8.6	⁷ 21.2	15.6	5.3	4.4	3.4	3.5	4.1	4.0
4...	3.6	6.1	^b 3.4	5.0	9.0	12.2	3.4	3.1	3.2	2.9	3.3	3.2	4...	4.8	16.2	4.4	8.7	21.2	17.9	5.0	3.9	3.3	3.5	4.0	4.1
5...	4.0	4.9	^b 3.3	5.1	8.0	10.0	3.3	3.0	3.1	2.9	3.2	3.5	5...	^c 3.9	12.3	4.2	8.7	20.3	20.3	4.7	3.7	3.9	3.6	4.0	4.7
6...	4.2	3.8	3.2	5.9	6.6	7.5	3.3	3.0	3.0	2.9	3.2	3.9	6...	^c 3.7	8.8	4.2	9.6	19.0	21.4	4.7	3.6	3.8	3.4	3.9	5.0
7...	4.2	4.1	3.2	7.0	5.6	8.8	3.2	3.0	3.2	2.9	3.2	3.9	7...	^c 4.7	7.6	4.3	11.0	16.3	21.3	4.6	3.5	3.6	3.5	3.8	5.6
8...	3.9	4.0	3.3	5.9	4.9	11.0	3.2	3.0	3.1	2.9	3.2	4.1	8...	^c 5.5	7.7	4.3	12.4	13.0	20.3	4.6	3.7	3.4	3.3	3.7	6.4
9...	3.7	4.1	3.4	5.1	4.5	10.5	3.2	3.0	3.0	2.9	3.2	4.6	9...	^c 5.7	^b 7.0	4.2	11.1	10.2	20.4	4.3	3.4	3.7	3.2	3.6	6.7
10...	3.5	4.1	3.4	4.5	4.3	8.9	3.2	3.0	3.1	2.9	3.1	4.2	10...	^c 5.6	^b 7.4	4.3	9.4	9.1	21.0	4.2	3.4	3.7	3.2	3.7	7.0
11...	3.5	5.3	3.3	4.1	4.1	7.5	3.2	2.9	3.0	2.9	3.2	4.1	11...	^c 5.2	^b 8.2	4.2	8.8	8.4	20.6	4.2	3.3	3.5	3.2	3.6	6.7
12...	3.6	4.2	3.3	7.5	4.0	6.1	3.2	3.0	3.1	2.8	3.2	3.8	12...	^c 5.4	^b 8.7	4.4	10.8	7.9	19.1	4.2	3.2	3.9	3.2	4.0	6.4
13...	3.7	3.8	3.6	7.3	3.9	5.2	3.2	3.1	3.2	2.8	3.5	3.6	13...	^c 5.3	^b 8.8	4.5	14.0	7.4	15.6	4.3	3.2	4.4	3.2	4.1	5.9
14...	4.1	3.7	4.7	6.0	3.8	4.7	3.2	2.9	3.2	2.8	3.5	3.5	14...	5.6	^b 8.6	5.2	14.7	7.2	11.8	4.2	3.2	4.3	3.2	4.2	5.5
15...	4.5	3.6	6.9	5.0	4.4	4.4	3.3	2.9	3.2	2.8	3.3	3.4	15...	6.4	^b 8.6	7.2	12.8	7.0	10.1	4.3	3.4	4.1	3.2	4.6	5.2
16...	5.8	3.5	6.3	4.6	4.7	4.1	4.4	2.9	3.2	2.8	3.3	3.4	16...	7.2	^b 8.2	9.5	10.5	7.1	8.9	4.4	3.5	4.6	3.1	4.5	5.1
17...	5.9	3.6	5.3	4.9	4.9	4.0	4.0	3.0	3.2	2.8	3.3	3.3	17...	8.6	^b 8.0	9.6	10.5	9.5	8.1	4.4	3.4	4.3	3.1	4.5	5.0
18...	5.4	3.5	4.6	7.1	5.4	3.9	4.0	5.2	3.1	3.0	3.3	3.3	18...	9.0	^b 7.6	8.1	10.2	9.6	7.6	5.6	3.4	4.0	3.1	4.2	4.7
19...	4.7	3.7	4.1	6.6	5.6	3.8	4.0	5.0	3.0	3.4	3.3	3.4	19...	8.4	^b 7.4	7.1	12.3	9.8	7.2	5.3	3.6	4.0	3.1	4.4	4.6
20...	4.2	3.7	3.8	5.6	5.7	3.7	4.3	4.1	3.0	3.7	3.3	3.4	20...	7.5	^c 6.5	6.3	12.1	10.1	7.1	5.4	6.4	3.8	3.3	4.4	4.8
21...	4.1	3.5	3.7	7.1	5.7	3.6	3.9	3.7	2.9	3.6	3.2	3.4	21...	6.6	^c 6.0	5.7	12.2	11.2	6.8	5.5	5.6	3.7	3.6	4.4	4.6
22...	6.0	3.5	3.8	7.8	6.8	3.6	3.6	3.4	3.3	3.6	3.2	3.3	22...	6.3	^c 5.6	5.6	14.3	12.2	6.3	5.4	4.8	4.5	4.2	4.2	4.6
23...	5.5	3.6	3.8	6.8	6.8	3.5	3.4	3.3	3.6	3.4	3.2	3.3	23...	7.8	^b 5.2	5.7	15.4	14.3	6.1	5.0	4.3	5.3	4.1	4.2	4.5
24...	5.0	^b 5.0	3.9	6.0	6.2	3.5	3.3	3.2	3.4	3.3	3.2	3.2	24...	10.7	^c 4.6	5.8	14.8	14.0	6.0	4.6	4.0	4.8	4.1	4.1	4.5
25...	4.7	^b 4.6	4.6	5.3	5.4	3.5	3.2	3.1	3.2	3.2	3.2	3.2	25...	9.9	^c 4.6	6.8	13.8	12.6	5.8	4.3	3.7	4.8	3.8	4.1	4.4
26...	4.4	^b 4.2	7.2	7.4	5.9	3.5	3.2	3.3	3.3	3.1	3.2	3.2	26...	7.4	^c 5.2	8.8	14.2	11.1	5.7	4.1	3.9	4.7	3.6	4.1	4.4
27...	4.5	^b 4.1	6.9	8.6	6.0	3.5	3.1	3.2	3.2	3.1	3.3	3.2	27...	7.1	^c 5.6	11.7	14.9	10.4	5.5	4.0	4.0	4.2	3.5	4.0	4.3
28...	4.7	^b 4.1	5.9	7.8	5.1	3.5	3.1	3.1	3.1	3.1	3.3	3.3	28...	6.6	^c 5.2	12.0	⁶ 16.0	10.8	5.5	4.0	3.9	4.1	3.8	4.1	4.1
29...	4.4	.....	5.4	6.5	4.7	4.3	3.1	3.1	3.1	3.1	3.3	3.2	29...	6.9	.....	10.4	15.9	9.8	5.4	3.8	3.8	4.1	4.1	4.1	4.2
30...	4.8	.....	5.0	8.3	5.3	4.2	3.1	3.1	3.0	3.2	3.3	3.2	30...	8.6	.....	9.4	16.7	9.2	5.3	3.8	3.9	3.9	4.0	4.0	4.2
31...	10.6	.....	5.3	.....	5.5	.....	3.1	3.0	.....	3.4	.....	3.2	31...	12.4	.....	9.1	.....	9.7	.....	3.8	3.9	.....	3.8	.....	4.3
WABASH RIVER AT LAFAYETTE, IND. Wabash—Ohio [Elevation of gage zero, 504.14 feet, m.s.l. Flood stage, 11 feet]													WABASH RIVER AT TERRE HAUTE, IND. Wabash—Ohio [Elevation of gage zero, 445.78 feet, m.s.l. Flood stage, 14 feet]												
1...	^b 2.4	15.6	2.8	5.6	17.0	6.3	3.5	1.7	1.8	1.8	2.1	^b 1.5	1...	2.3	13.9	2.5	6.9	15.9	8.6	4.0	1.6	1.5	1.5	1.8	1.4
2...	2.6	15.2	2.6	5.5	18.0	8.4	3.1	1.8	1.6	1.6	2.2	^b 2.3	2...	2.0	14.2	2.5	6.5	16.7	8.6	4.6	1.6	1.4	1.5	1.6	1.5
3...	2.8	12.0	2.5	5.6	17.3	15.7	2.8	1.8	1.5	1.7	2.1	^b 2.3	3...	2.0	14.2	2.3	6.2	17.1	10.9	4.3	1.8	1.3	1.4	1.6	1.5
4...	^b 2.7	9.1	2.3	5.6	15.8	⁸ 18.1	2.7	1.8	1.5	1.7	2.1	2.6	4...	^b 2.0	14.1	2.2	6.4	⁹ 17.4	13.0	3.9	2.1	1.3	1.3	1.6	1.3
5...	^b 2.5	8.0	2.5	6.1	14.0	18.1	2.6	1.7	1.8	1.6	2.0	2.4	5...	^c 2.1	13.0	2.1	6.4	¹⁰ 17.6	14.2	3.4	1.9	1.1	1.2	1.6	1.4
6...	^b 2.7	4.5	2.5	6.9	11.0	15.8	2.5	1.7	1.7	1.6	1.9	3.1	6...	^c 2.1	10.3	2.1	7.5	17.3	15.1	3.2	1.6	1.5	1.0	1.5	1.9
7...	^b 3.0	4.7	2.6	8.9	8.3	13.5	2.4	1.6	1.6	1.5	1.9	3.5	7...	^b 1.3	^c 8.0	2.1	9.4	16.7	16.2	3.1	1.6	1.5	.9	1.5	2.2
8...	^b 3.1	4.0	2.6	8.5	6.8	16.3	2.3	1.6	1.8	1.5	1.8	3.7	8...	^b 1.9	^c 7.5	2.1	9.0	16.1	17.7	3.0	1.5	1.3	1.0	1.4	3.2
9...	^b 3.1	^b 3.2	2.4	7.8	6.0	17.2	2.2	1.6	1.8	1.6	1.9	4.2	9...	^b 2.5	^c 5.0	2.1	9.5	14.2	¹¹ 18.8	2.8	1.5	1.1	1.0	1.3	3.2
10...	^b 2.6	^b 3.7	2.2	5.7	5.3	16.1	2.2	1.5	1.6	1.5	1.7	4.2	10...	^b 2.6	^c 5.0	2.1	8.7	10.8	18.8	2.6	1.3	1.1	1.0	1.3	4.5
11...	^b 2.6	^b 4.0	2.7	5.3	4.8	13.5	2.2	1.5	1.7	1.5	2.1	3.8	11...	^b 2.5	^c 5.0	2.1	7.7	8.5	18.4	2.6	1.4	1.4	1.0	1.4	4.2
12...	^b 3.0	^b 4.1	2.7	9.0	4.3	10.0	2.2	1.5	1.9	1.4	2.1	3.5	12...	^b 2.8	^c 5.0	2.0	9.9	7.2	18.0	2.6	1.3	1.4	1.0	1.3	4.1
13...	^b 3.1	^b 3.8	2.7	11.4	4.2	7.5	2.3	1.4	2.2	1.4	2.2	3.2	13...	^b 3.5	^c 5.0	2.0	11.1	6.5	17.3	2.5	1.1	1.8	1.0	1.3	3.5
14...	3.6	^b 3.9	4.2	9.8	4.2	6.9	2.3	1.6	2.0	1.4	2.7	3.0	14...	^b 4.2	^c 5.0	2.0	11.1	6.0	16.2						

U. S. DEPARTMENT OF COMMERCE

CHARLES SAWYER, Secretary

WEATHER BUREAU

F. W. REICHELDERFER, Chief

DAILY RIVER STAGES

AT RIVER GAGE STATIONS ON THE
PRINCIPAL RIVERS OF THE
UNITED STATES

REFERENCE
DO NOT CIRCULATE

Volume XLIV
1948

Community Affairs File



NEW ORLEANS, LA., 1951

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DAILY RIVER STAGES-1948

INTRODUCTION

This volume, containing the daily river stages for 1948 is the forty-fourth of a series of Daily River Stages on the Principal Rivers of the United States, the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

- Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.
- II. Stages of the Mississippi River and of its Principal Tributaries, except the Ohio River, 1860 to 1889.
- III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.

DAILY RIVER STAGES AT RIVER GAGE STATIONS ON THE PRINCIPAL RIVERS OF THE UNITED STATES

Volume IV. 1890 to 1892	Volume XIV. 1916	Volume XXIV. 1926	Volume XXXIV. 1936
V. 1893 to 1895	XV. 1917	XXV. 1927	XXXV. 1937
VI. 1896 to 1899	XVI. 1918	XXVI. 1928	XXXVI. 1938
VII. 1900 to 1904	XVII. 1919	XXVII. 1929	XXXVII. 1939
VIII. 1905 and 1906	XVIII. 1920	XXVIII. 1930	XXXVIII. 1940 and 1941
IX. 1907 and 1908	XIX. 1921	XXIX. 1931	XXXIX. 1942 and 1943
X. 1909 and 1910	XX. 1922	XXX. 1932	XL. 1944
XI. 1911 and 1912	XXI. 1923	XXXI. 1933	XLI. 1945
XII. 1913 and 1914	XXII. 1924	XXXII. 1934	XLII. 1946
XIII. 1915	XXIII. 1925	XXXIII. 1935	XLIII. 1947

Volumes XXXIII to XLIV can be bought from the Superintendent of Documents, Washington, D.C.; other volumes are out of print and cannot be supplied.

The river stages are the vertical distances, in feet and tenths, of the water surface above or below the zero of the gage. The zero has, as a rule, been set at or near the lowest known water.

Gage readings are usually made at 8 a.m., seventy-fifth meridian time, east of the Continental Divide, and at 7 a.m., local time, west of the divide.

Extreme stages for a month, or important crest stages, not observed at the regular time for reading the gage, are printed as a note at the foot of the table or page. This practice was begun in 1907.

In some cases the zero planes of gages have been changed, either through accident or through necessary removals. The stations at which changes have occurred are given in a table headed "Corrigenda," and the corrections required to reduce previous readings to the zero now in use are also given in the table if they have not been previously published.

The country is divided into districts, and each district has a designated center at which the administrative and forecasting work is carried on. The following table shows the centers and their districts.

ADMINISTRATIVE AND FORECASTING CENTERS AND THEIR DISTRICTS

Albany, N. Y.....	Hudson River and tributaries.
Albuquerque, N. Mex.....	Pecos River in New Mexico; Rio Grande and tributaries at and above Elephant Butte Reservoir Dam, N. Mex.; Canadian River and tributaries in New Mexico; and the San Juan River and tributaries.
Allentown, Pa.....	Lackawaxen River and the Lehigh River above but not including Easton, Pa.
Asheville, N.C.....	French Broad River and tributaries above North Carolina-Tennessee State line.
Atlanta, Ga.....	Apalachicola, Altamaha, St. Marys, and Satilla Rivers and tributaries.
Augusta, Ga.....	Savannah and Ogeechee Rivers and tributaries.
Austin, Tex.....	Colorado River (of Texas) and tributaries.
Bakersfield, Calif.....	Kern River and tributaries; Buena Vista Lake drainage and Poso Creek.
Billings, Mont.....	Yellowstone River and tributaries.
Binghamton, N. Y.....	Susquehanna River and tributaries above Towanda, Pa.
Bismarck, N. Dak.....	Missouri River and tributaries from and including Fort Peck Dam to and including Bismarck, N. Dak., except the Milk and Yellowstone.
Boise, Idaho.....	Snake River and tributaries above and including Lewiston, Idaho.
Brownsville, Tex.....	Rio Grande below Laredo, Tex.
Burlington, Iowa.....	Mississippi River and tributaries, except the Iowa and Skunk Rivers, and the Des Moines River at and above Keosauqua, Iowa, from below Muscatine, Iowa, to but not including Dam No. 24.
Burlington, Vt.....	Lake Champlain drainage.
Cairo, Ill.....	Ohio River and tributaries below Dam No. 50 at Fords Ferry, Ky., except the Cumberland River above Lock F at Eddyville, Ky., and the Tennessee River; Mississippi River from and including Cape Girardeau, Mo. to and including New Madrid, Mo.
Charleston, S. C.....	Waccamaw, Black, and Yadkin-Pee Dee and Edisto Rivers and tributaries.
Chattanooga, Tenn.....	Tennessee River and tributaries from below Knoxville, Tenn., to and including Decatur, Ala.
Cincinnati, Ohio.....	Ohio River and tributaries, except the Scioto River, from below Dam No. 30 to and including the mouth of the Kentucky River.
Columbia, S. C.....	Santee River and tributaries.
Columbus, Ohio.....	Sandusky and Scioto Rivers.
Concord, N. H.....	Merrimack River and tributaries.
Dallas, Tex.....	Trinity River and tributaries above Long Lake, Tex.
Davenport, Iowa.....	Mississippi River and tributaries from but not including Dam No. 10, to and including Muscatine, Iowa.
Del Rio, Tex.....	The Rio Grande and tributaries from but not including the Pecos River to and including Laredo, Tex.
Denver, Colo.....	North Platte and South Platte Rivers and tributaries at and above North Platte, Nebr.
Des Moines, Iowa.....	Iowa and Skunk Rivers and tributaries. Des Moines River and tributaries at and above Keosauqua, Iowa.
Elkins, W. Va.....	Tygart River and tributaries at and above the Tygart River Dam, W. Va.
El Paso, Tex.....	The Rio Grande and tributaries from below Elephant Butte Reservoir Dam, N. Mex., to and including the mouth of the Pecos River; the Pecos River in Texas.
Eureka, Calif.....	California Coast drainage from Point Delgada northward to but not including the Klamath River.
Evansville, Ind.....	Ohio River and tributaries, except the Wabash River, from below Hawesville, Ky., to and including Dam No. 50 at Fords Ferry, Ky.
Fargo, N. Dak.....	Red River of the North and tributaries below the Canadian line.
Fort Wayne, Ind.....	Maumee River and tributaries.
Fresno, Calif.....	San Joaquin River and tributaries above the mouth of the Tuolumne River.
Grand Junction, Colo.....	Colorado River and tributaries above but not including the mouth of the San Juan.
Grand Rapids, Mich.....	Grand River and tributaries below Grand Ledge, Mich.
Harrisburg, Pa.....	Susquehanna River and tributaries at and below Towanda, Pa.
Hartford, Conn.....	Connecticut, Housatonic, and Thames Rivers and tributaries; also other coastal rivers in states of Connecticut and Rhode Island, including the Taunton River.
Helena, Mont.....	Missouri River and tributaries above Fort Peck Dam, Milk River.
Houston, Tex.....	Neches and Brazos Rivers; Trinity River at and below Long Lake, Tex.
Huntington, W. Va.....	Ohio River and tributaries from below Dam No. 23 to and including Dam No. 30, Greenup, Ky.
Indianapolis, Ind.....	Wabash River and tributaries.
Jackson, Miss.....	Pascagoula and Pearl Rivers and tributaries.
Kansas City, Mo.....	Missouri River and tributaries, except the Kansas River at and above Lawrence, Kans., from the mouth of the Platte River to and including Lexington, Mo.

Knoxville, Tenn.....	Tennessee River and tributaries, except French Broad River and tributaries above North Carolina-Tennessee State line.
La Crosse, Wis.....	Mississippi River and tributaries from and including Dam No. 2 to and including Dam No. 10; Lake Superior drainage from but not including St. Louis River eastward to Wisconsin-Michigan State line (including Montreal River), and Lake Michigan drainage from and including Menominee River southward to Wisconsin-Illinois State line.
Lake Charles, La.....	Sabine, Calcasieu, Mermentau, and Vermillion Rivers.
Lansing, Mich.....	Grand River and tributaries at and above Grand Ledge, Mich.; Saginaw River and tributaries.
Little Rock, Ark.....	Arkansas River and tributaries below Van Buren, Ark.; White River and tributaries; Ouachita River and tributaries in Arkansas.
Los Angeles, Calif.....	California Coast drainage south of Point Buchon; the Salton Sea basin; Great Basin in California, south of and including Mono Lake drainage.
Louisville, Ky.....	Ohio River and tributaries from below the mouth of the Kentucky to and including Hawesville, Ky.
Medford, Oreg.....	Oregon and California Coast drainage, from and including Umpqua River basin, southward to and including Klamath River and tributaries; the Great Basin in Oregon, except the Quinn River.
Memphis, Tenn.....	Mississippi River from below New Madrid, Mo., to the mouth of the White River; St. Francis River and tributaries.
Minneapolis, Minn.....	Mississippi River and tributaries above but not including Dam No. 2.
Mobile, Ala.....	Tombigbee River and tributaries.
Montgomery, Ala.....	Alabama River and tributaries.
Nashville, Tenn.....	Cumberland River and tributaries.
New Orleans, La.....	Mississippi River below Natchez, Miss.; Red River below Alexandria, La.; Ouachita and Black Rivers and tributaries in Louisiana; Atchafalaya River.
Norfolk, Nebr.....	Elkhorn River and tributaries; Omaha Creek.
Oklahoma City, Okla.....	Canadian River and tributaries east of the eastern boundary of New Mexico.
Omaha, Nebr.....	Missouri River and tributaries from below Sioux City, Iowa, to and including the mouth of the Platte, except the North Platte and the South Platte at and above North Platte, Nebr., and excluding the Elkhorn River.
Parkersburg, W. Va.....	Ohio River and tributaries from below Dam No. 13 to and including Dam No. 23, near Apple Grove, Ohio.
Pensacola, Fla.....	Escambia and Choctawhatchee Rivers and tributaries.
Philadelphia, Pa.....	Delaware River and tributaries, except the Lackawaxen, the Lehigh above Easton, Pa., and the Schuylkill above Perkiomen Creek.
Phoenix, Ariz.....	Gila River and tributaries at and above Gila Bend, Ariz., and the Colorado River and tributaries from but not including the San Juan to but not including the mouth of the Virgin River.
Pittsburgh, Pa.....	Ohio River and tributaries at and above Dam No. 13, except the Tygart River at and above Tygart River Dam, W. Va.
Portland, Maine.....	Rivers in Maine.
Portland, Oregon.....	Columbia River and tributaries below Grand Coulee Dam, except the Snake River at and above Lewiston, Idaho; Oregon Coast drainage north of the Umpqua River basin.
Pueblo, Colo.....	Arkansas River and tributaries in Colorado.
Raleigh, N. C.....	The rivers and their tributaries that enter the Atlantic Ocean on the North Carolina coast.
Reading, Pa.....	Schuylkill River and tributaries above Perkiomen Creek.
Richmond, Va.....	James River and tributaries.
Sacramento, Calif.....	Rivers in the central valleys of California, except the San Joaquin River above the mouth of the Tuolumne River.
St. Louis, Mo.....	Mississippi River and tributaries from and including Dam No. 24 and its upstream gage to but not including Cape Girardeau, Mo., except the Osage River in Kansas and the Missouri River at and above Jefferson City, Mo.
Salt Lake City, Utah.....	Great Salt Lake basin.
San Antonio, Tex.....	Guadalupe, Nueces, and the San Antonio Rivers and tributaries.
San Francisco, Calif.....	California Coast drainage, except rivers in the Central Valley of California, from Point Delgada to Point Buchon.
Seattle, Wash.....	Puget Sound and Washington Coast drainage, except the Columbia River.
Shreveport, La.....	Red River and tributaries at and above Alexandria, La.
Sioux City, Iowa.....	Missouri River and tributaries from below Bismarck, N. Dak., to and including Sioux City, Iowa.
Spokane, Wash.....	Columbia River and tributaries above and including Grand Coulee Dam.
Topeka, Kans.....	Kansas River and tributaries at and above Lawrence, Kans., Osage River and tributaries in Kansas.
Tulsa, Okla.....	Arkansas River and tributaries, except the Canadian River, from the Kansas-Colorado line to and including Van Buren, Ark.

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Washington, D. C..... Potomac and Rappahannock Rivers and tributaries.
Yuma, Ariz..... Colorado River and tributaries from and including the mouth of the Virgin River to the Arizona-Mexico border, and the Gila River below Gila Bend, Ariz.

[River stations, arranged by drainage area, and miscellaneous information pertaining thereto.]

Station	River	Length of record ¹	Elevation of gage zero above mean sea level ²	Distance of gage above mouth of river ³	Drainage area above gage ⁴	Flood stage	Extreme stages from gage readings ⁵			
							Highest	Date	Lowest	Date
MISSISSIPPI SYSTEM—Continued										
Ohio Basin—Continued										
Elkins, W. Va.	Tygart	17	1,900.36			17	15.8	Mar. 18, 25, 1936		
Philippi, W. Va.	do.	30	1,280.55	46.0	916	17	N 26.7	Oct. 29, 1937	N 0.0	Sept. 29, 1930
Weston, W. Va.	West Fork	46	994.60	69.0	1,333	17	22.25	Apr. 16, 1939	1.3	June 28, 1936
Connellsville, Pa.	Youghiogheny	76	1,302.32	67.0	1,029	12	P 21.9	Mar. 29, 1924	P 0.7	Sept. 6, 1881
Sutersville, Pa.	do.	41	860.13	45.0	1,326	16	20.3	Mar. 18, 1936	0.1	Sept. 23, 1908
Lock No. 15, Houlit, W. Va. (Lower gage)	Monongahela	31	733.14	13.5	20	20.3				
Lock No. 10, Morgantown, W. Va. (Lower gage)	do.	45	838.91	124.2	2,437	28	29.4	Jan. 2, 1919	0.7	Dec. 6, 1908
Lock No. 7, Greensboro, Pa. (Lower gage)	do.	66	785.40	101.5	2,683	24	39.1	July 10, 1888	-0.2	Oct. 5, 1873
Lock No. 4, Charleroi, Pa. (Lower gage)	do.	61	753.00	84.8	4,447	37	40.4	Mar. 18, 1936	6.2	Sept. 15, 1930
McKeesport, Pa.	do.	63	716.17	41.5	5,223	28	43.53	July 11, 1888	4.73	Nov. 18, 1887
Sharpsville, Pa.	do.	36	718.25	14.6	7,161	12	28.8	Mar. 18, 1936	0.6	Aug. 14, 1944
Beaver Falls, Pa.	Beaver	10	862.19	26.0	588	10				
Newcomertown, Ohio	Tuscarawas	41	727.48	5.5	3,086	15	17.4	Mar. 27, 1913	1.9	Aug. 10, 1913
Lock No. 10, Kanesville, Ohio	Muskingum	21	780.00	21.1	2,436	15	Q 21.2	Aug. 9, 1935	2.5	Aug. 15-16, 1944
Lock No. 7, McConnellsville, Ohio	do.	58	665.30	75.8	6,840	25	51.8	Mar. 27, 1913	4.3	Oct. 14, 1895
Glenville, W. Va.	do.	36	835.00	48.2	7,411	22	46.1	.....do.....	3.4	Oct. 9, 1916
Creston, W. Va.	do.	20	588.10	13.9	7,978	25	32.5	Mar. 7, 1945	5.8	Aug. 12, 1931
Athens, Ohio	do.	48	897.79	103.0	3,665	23	33.6	Nov. 16, 1926	-0.9	Nov. 10, 1908
Camden on Gauley, W. Va.	do.	48	621.71	48.0	1,214	20	33.2	Apr. 17, 1939	-3.0	Nov. 4, 1906
Galax, Va.	Hocking	33	615.59	31.6	944	17	23.0	Mar. 7, 1945	2.0	Aug. 13, 1941
Radford, Va.	Gauley	33	2,003.28	71.0	238	23	18.2	June 27, 1940	0.0	Aug. 5-6, 1944
Glenlyn, Va.	New	7	2,208.04	218.0	1,131	12	25.7	Aug. 14, 1940	0.56	July 9, 1930
Hinton, W. Va.	do.	53	1,712.36	145.0	2,761	15	36.0	.....do.....	-2.0	Nov. 3, 1904
Clay, W. Va.	do.	23	1,486.76	95.0	3,859	16	27.5	.....do.....	0.1	Sept. 29, 1926
Kanawha Falls, W. Va.	do.	62	1,358.44	63.4	6,288	14	20.2	Sept. 13, 1876	0.4	Sept. 12, 1944
London Dam, London, W. Va.	Elk	34	676.80	53.2	1,016	18	32.4	Aug. 14, 1918	-0.1	July 27, 1936
Charleston, W. Va.	Kanawha	35	622.88	95.0	8,415	25	31.7	Aug. 15, 1940	-0.9	Oct. 29, 1921
Lock No. 6, S. Charleston, W. Va.	do.	15	581.00	82.8	8,552	43	40.0	Aug. 15, 1940		
Logan, W. Va.	do.	76	558.65	58.4	10,495	34	41.8	Sept. 14, 1878	-0.1	Sept. 15, 1881
Williamson, W. Va.	do.	55	547.98	34.0	10,587	45	48.6	May 5, 1899	1.65	Oct. 28, 1893
Kornit, W. Va.	Guyandot	27	639.08	81.4	859	20	27.0	Mar. 28, 1918	0.0	Oct. 10, 1923
Pikeville, Ky.	Tug Fork	42	.....	57.3	941	38	38.1	Jan. 28, 1918	-0.8	Oct. 2, 1908
Paintsville, Ky.	do.	18	574.77	35.0	1,268	38	38.8	.....do.....	1.4	Oct. 4, 1920
Lock No. 3, Louisa, Ky.	Lavina Fork	41	633.03	88.5	1,225	36	48.5	Mar. 23, 1928	0.5	Oct. 6, 1941
Delaware, Ohio	do.	21	566.84	38.5	.....	40	42.15	Feb. 4, 1939	1.06	July 23, 1930
La Rue, Ohio	Big Sandy	60	516.81	26.6	3,821	45	48.0	Mar. 6, 1899	0.7	Nov. 18, 1884
Prospect, Ohio	Olentangy	39	848.58	26.2	415	9	25.5	Mar. 25, 1913	-0.5	Sept. 3, 1921
Columbus, Ohio	Scioto	33	910.19	196.2	255	11	15.0	Mar. 20, 1927	1.8	June 5, 1941
Circleville, Ohio	do.	42	891.72	172.2	554	10	15.0	Mar. 22, 1927	0.2	Oct. 2, 1910
Chillicothe, Ohio	do.	51	700.03	131.9	1,613	22	L 22.9	Mar. 25, 1913	-0.8	July 27, 1923
Pikeville, Ohio	do.	37	643.03	100.4	3,217	14	28.2	Mar. 26, 1913	1.7	Aug. 13, 1944
Kings Mills, Ohio	do.	41	594.02	70.4	3,847	16	39.8	.....do.....	0.85	Sept. 27, 1944
Cynthiana, Ky.	do.	6	533.52	35.0	5,824	15	27.8	Mar. 7, 1945	0.6	Dec. 22, 1944
Farmers, Ky.	Little Miami	24	587.10	28.1	1,048	17	33.7	.....do.....	0.5	July 3, 1914
Falmouth, Ky.	South Fork	32	646.44	172.0	641	20	23.32	Apr. 13, 1848	0.5	June 15, 1936
Pleasant Hill, Ohio	Licking	32	511.16	51.2	2,267	25	31.1	Feb. 9, 1918	1.0	Sept. 13-14, 1945
Springfield, Ohio	do.	62	846.73	29.2	502	28	41.6	Apr. 14, 1948	-0.1	Sept. 6, 1930
Brookville, Ind.	Stillwater	33	881.42	23.6	477	13	17.5	Jan. 15, 1937	0.6	July 26, 1941
Sidney, Ohio	Mad.	35	595.73	27.0	1,230	11	15.1	.....do.....	1.2	Dec. 4, 1944
Piqua, Ohio	Whitewater	31	924.65	134.8	545	12	25.56	Feb. 26, 1929	0.1	Sept. 25, 1941
Tipp City, Ohio	Miami	30	844.00	122.1	850	12	14.2	Mar. 21, 1937	-0.2	Sept. 23, 1940
Dayton, Ohio	do.	38	786.77	104.5	955	27	28.1	Mar. 25, 1913	0.7	Sept. 17, 1941
Miamisburg, Ohio	do.	56	721.01	84.5	2,515	21	31.7	Mar. 21, 1937	0.4	Oct. 3, 1941
Franklin, Ohio	do.	26	678.44	68.6	2,719	22	20.6	Jan. 22, 1937	-0.3	Oct. 17, 1929
Middletown, Ohio	do.	26	659.41	61.3	2,731	16	16.7	.....do.....	0.0	Nov. 5, 1944
Hamilton, Ohio	do.	26	621.00	52.3	3,158	15	19.0	Feb. 27, 1929	0.0	Oct. 8, 1924
Hazard, Ky.	do.	39	560.00	35.3	3,637	17	43.1	Mar. 26, 1913	-1.7	Oct. 21, 1932
Jackson, Ky.	North Fork	24	837.57	96.0	942	20	33.8	May 30, 1927	-0.4	Aug. 1, 1925
Jackson, Ky.	do.	43	697.67	.....	1,105	29	43.1	Feb. 4, 1939	0.3	Aug. 14-17, 1944
Lock No. 14, Heidelberg, Ky.	Kentucky	32	627.20	249.3	2,639	30	35.6	.....do.....	4.8	Nov. 10, 1930
Lock No. 10, Ford, Ky.	do.	43	556.80	176.3	3,948	30	35.1	Mar. 29, 1913	9.0	Aug. 14, 1944
Lock No. 7, Highbridge, Ky.	do.	48	503.66	117.0	5,024	30	42.2	Jan. 23, 1937	4.7	Nov. 24, 1912
Lock No. 4, Frankfort, Ky.	do.	63	462.17	65.0	5,396	31	47.58	Jan. 25, 1937	3.2	Nov. 1, 1908
Bowling Green, Ky.	do.	25	409.63	37.6	1,870	28	40.7	Jan. 23, 1937	3.2	Oct. 18, 1923
Dundee, Ky.	Barron	9	393.18	62.5	752	25	.....	.....do.....	.....	.....
Munfordville, Ky.	Rough	24	451.70	223.0	1,707	28	50.4	Jan. 23, 1937	1.7	Oct. 1, 1928
Lock No. 6, Brownsville, Ky.	Green	32	403.26	180.6	2,751	28	54.7	Jan. 24, 1937	6.1	Sept. 10, 1919
Lock No. 4, Woodbury, Ky.	do.	50	373.80	149.5	5,446	33	59.0	.....do.....	5.0	Sept. 17, 1902
Lock No. 2, Runney, Ky.	do.	50	343.64	62.8	7,681	34	54.42	Jan. 31, 1937	3.7	July 28, 1902
Anderson, Ind.	West Fork	38	825.02	242.6	3,428	10	22.8	Mar. 25, 1913	3.8	June 19, 1918
Noblesville, Ind.	do.	35	738.16	215.1	844	14	18.8	Jan. 16, 1937	3.0	Aug. 29, 1914
Indianapolis, Ind.	do.	38	672.92	185.3	1,590	12	29.5	Mar. 26, 1913	2.0	Sept. 17, 1941
Spencer, Ind.	do.	23	526.04	.....	2,980	14	23.2	Jan. 16, 1937	0.9	Oct. 1, 1941
Ellettsville, Ind.	do.	41	472.94	78.2	4,470	18	31.3	Mar. 27, 1913	5.3	Oct. 22-Nov. 5, 1944
Edwardport, Ind.	do.	26	433.20	32.6	4,995	12	25.0	May 22, 1943	1.7	Jan. 2, 1945
Seymour, Ind.	do.	26	559.67	167.6	2,292	14	19.5	Jan. 16, 1937	0.3	Aug. 22, 1936
Williamam, Ind.	East Fork	28	472.56	79.2	4,584	10	25.0	Jan. 25, 1937	-2.0	Jan. 1, 1931
Shoals, Ind.	do.	41	442.21	56.0	4,828	25	42.2	Mar. 28, 1913	1.2	Aug. 24, 1936
Petersburg, Ind.	White	14	400.00	47.8	11,100	16	28.1	Jan. 21, 1937	0.0	Aug. 26, 1936
Haci los, Ind.	do.	23	383.23	18.9	11,200	16	31.6	Jan. 22, 1937	0.5	Sept. 30, 1941
Bluffton, Ind.	do.	38	793.01	421.8	555	10	20.0	Mar. 26, 1913	0.2	July 26, 1934
Wabash, Ind.	do.	26	642.66	.....	1,740	12	24.8	May 18, 1943	1.7	Aug. 9, 1934
Peru, Ind.	do.	31	622.73	378.0	2,860	20	.....	.....do.....	.....	.....
Logansport, Ind.	do.	31	573.28	343.2	3,860	17	25.3	Mar. 28, 1913	2.2	Dec. 4, 1914
La Fayette, Ind.	do.	35	504.14	301.4	7,324	11	28.4	May 19, 1943	0.3	Sept. 25, 1941
Covington, Ind.	do.	22	473.97	260.5	8,399	16	32.4	May 20, 1943	1.2	Oct. 1, 1928
Terre Haute, Ind.	do.	50	445.78	204.4	12,333	14	31.3	Mar. 27, 1913	-2.0	Feb. 6, 1892
Riverton, Ind.	do.	10	414.65	.....	13,100	.....	26.4	Mar. 28, 1913	0.0	Oct. 1, 1941
Vincennes, Ind.	do.	32	394.43	117.2	13,840	16	29.0	May 22, 1943	1.2	June 22, 1934
Mount Carmel, Ill.	do.	65	371.46	83.9	28,506	17	31.0	Mar. 30, 1913	-0.2	Oct. 8, 1940
New Harmony, Ind.	do.	15	353.20	44.0	29,160	15	34.4	Jan. 30, 1937	-0.2	Sept. 30, 1941
New River, Tenn.	New	41	1,092.67	8.0	383	18	41.2	Mar.		

See footnotes at end of table.

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[Omission of page number under "gage readings" indicates the record is short and broken, and is not published. A copy of the available readings may be obtained by application to the Chief of the Weather Bureau.]

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Perru, Ind.	Wabash	8	103	The Dalles, Oreg.	Neuse	10	159
Petersburg, Ind.	White	8	104	Tiffin, Ohio	Sandusky	5	25
Philadelphia, Pa.	Schuylkill	5	30	Yipp City, Ohio	Miam	7	78
Phillippi, W. Va.	Tygart	8	88	Topeka, Kans.	Kansas	7	35
Pickwick Dam, Tenn.	Tennessee	10	139	Towanda, Pa.	Susquehanna	5	35
Pikeburg, Ohio	Scioto	8	96	Tracy, Iowa	Des Moines	7	66
Pikeville, Ky.	Levisa Fork	8	95	Trenton, Mo.	Thompson Fork	7	79
Pine Bluff, Ark.	Arkansas	10	140	Trenton, N. J.	Delaware	8	30
Piney Bluff, Ga.	Altamaha	6	49	Tribe Hill, N. Y.	Mohawk	5	29
Piqua, Ohio	Miami	8	98	Trinidad, Tex.	Trinity	10	153
Pittsburgh, Pa.	Ohio	9	116	Tulsa, Okla.	Columbia	11	177
Pleasant Hill, Ohio	Stillwater	8	98	Tuscaloosa Lock and Dam, Ala.	Black Warrior	8	57
Plymouth, N. H.	Pemigewasset	5	26	Unatilla, Oreg.	Columbia	11	177
Point Pleasant, W. Va.	Ohio	9	118	Unadilla, N. Y.	Susquehanna	5	34
Poplar Bluff, Mo.	Black	9	130	Union, Mo.	Bourbeuse	7	68
Portage, Wis.	Wisconsin	6	84	Uniontown, Ky.	Ohio	9	126
Port Jervis, N. Y.	Delaware	5	30	Upper Sandusky, Ohio	Sandusky	5	25
Portland, Me.	Androscoggin	5	26	Valley Junction, Tex.	Braxos	10	156
Portland, Oreg.	Willamette	11	176	Valley Park, Mo.	Meramec	7	68
Portsmouth, Ohio	Ohio	9	120	Van Buren, Ark.	Arkansas	10	139
Poston, S. C.	Pee Dee	6	43	Vanceburg, Ky.	Ohio	9	120
Prairie du Chien, Wis.	Mississippi	7	71	Vancouver, Wash.	Columbia	11	178
Priest River, Idaho	Clark Fork	11	170	Vandergrift, Pa.	Kankakee	7	75
Prospect, Tenn.	Scioto	8	96	Van Meter, Iowa	Raccoon	6	65
Prospect, Colo.	Arkansas	10	139	Vestal, N. Y.	Susquehanna	5	35
Puyallup, Wash.	Puyallup	11	179	Vicksburg, Miss.	Mississippi	10	150
Quincy, Ill.	Mississippi	7	73	Victoria, Tex.	Guadalupe	10	158
Radford, Va.	New	8	93	Vincennes, Ind.	Wabash	8	107
Rainbow, Tex.	Braxos	10	156	Wabash, Ind.	Wabash	8	105
Salston, Okla.	Arkansas	10	138	Waco, Tex.	Neosho	10	156
Randolph, Va.	Roanoke	5	29	Wagoner, Okla.	Republican	7	72
Ravenwood, Pa.	Ohio	9	118	Wakefield, Kans.	Connecticut	5	28
Reading, Pa.	Schuylkill	5	30	Walpole, N. H.	Kansas	7	78
Reads, Minn.	Mississippi	7	70	Wapello, Iowa	Town	6	65
Red Bluff, Calif.	Sacramento	11	167	Warren, Pa.	Allegheny	7	86
Red River Landing, La.	Mississippi	10	150	Warrick, Ind.	Wabash	8	107
Red Wing, Minn.	Mississippi	7	70	Washington, D. C.	Potomac	5	37
Renovo, Pa.	Susquehanna—West Branch	5	33	Washington (near), D. C.	Potomac	5	37
Rensselaer, Ga.	Oostaula	5	40				
Reserve, La.	Mississippi	10	151				
Rexburg, Idaho	Henry Fork	11	170				

U. S. DEPARTMENT OF COMMERCE

SINCLAIR WEEKS, Secretary

WEATHER BUREAU

F. W. REICHELDERFER, Chief

DAILY RIVER STAGES

Volume XLV

1949

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DO NOT CIRCULATE

Community Affairs File



ASHEVILLE, N. C., 1953

DAILY RIVER STAGES-1949

INTRODUCTION

This volume, containing the daily river stages for 1949, is the forty-fifth of a series of Daily River Stages on the Principal Rivers of the United States, the publication of which was begun by the Signal Service, United States Army, and has been continued by the Weather Bureau. The previous volumes are as follows:

- Volume I. Stages of the Ohio River and of its Principal Tributaries, 1858 to 1889.
- II. Stages of the Mississippi River and of its Principal Tributaries, except the Ohio River, 1860 to 1889.
- III. Stages of Water at Miscellaneous River Stations in California, Oregon, North Carolina, etc., 1875 to 1889.

DAILY RIVER STAGES AT RIVER GAGE STATIONS ON THE PRINCIPAL RIVERS OF THE UNITED STATES

Volume IV.	1890 to 1892	Volume XV.	1917	Volume XXV.	1927	Volume XXXV.	1937
V.	1893 to 1895	XVI.	1918	XXVI.	1928	XXXVI.	1938
VI.	1896 to 1899	XVII.	1919	XXVII.	1929	XXXVII.	1939
VII.	1900 to 1904	XVIII.	1920	XXVIII.	1930	XXXVIII.	1940 and 1941
VIII.	1905 and 1906	XIX.	1921	XXIX.	1931	XXXIX.	1942 and 1943
IX.	1907 and 1908	XX.	1922	XXX.	1932	XL.	1944
X.	1909 and 1910	XXI.	1923	XXXI.	1933	XLI.	1945
XI.	1911 and 1912	XXII.	1924	XXXII.	1934	XLII.	1946
XII.	1913 and 1914	XXIII.	1925	XXXIII.	1935	XLIII.	1947
XIII.	1915	XXIV.	1926	XXXIV.	1936	XLIV.	1948
XIV.	1916						

Volumes XXXVIII to XLV can be bought from the Superintendent of Documents, Washington, D. C.; other volumes are out of print and cannot be supplied.

The river stages are the vertical distances, in feet and tenths, of the water surface above or below the zero of the gage. The zero has, as a rule, been set at or near the lowest known water.

Gage readings are usually made at 8 a.m., seventy-fifth meridian time, east of the Continental Divide, and at 7 a.m., local time, west of the divide.

Extreme stages for a month, or important crest stages, not observed at the regular time for reading the gage, are printed as a note at the foot of the table or page. This practice was begun in 1907.

In some cases the zero planes of gages have been changed, either through accident or through necessary removals. The stations at which changes have occurred are given in a table headed "Corrigenda," and the corrections required to reduce previous readings to the zero now in use are also given in the table if they have not been previously published.

The country is divided into districts, and each district has a designated center at which the administrative and forecasting work is carried on. The following table shows the centers and their districts.

ADMINISTRATIVE AND FORECASTING CENTERS AND THEIR DISTRICTS

Albany, N. Y.....	Hudson River and tributaries.
Albuquerque, N. Mex.....	Pecos River in New Mexico; Rio Grande and tributaries at and above Elephant Butte Reservoir Dam, N. Mex.; Canadian River and tributaries in New Mexico; and the San Juan River and tributaries.
Allentown, Pa.....	Lackawaxen River and the Lehigh River above but not including Easton, Pa.
Asheville, N. C.....	French Broad River and tributaries above North Carolina-Tennessee State line.
Atlanta, Ga.....	Apalachicola, Altamaha, St. Marys, and Satilla Rivers and tributaries.
Augusta, Ga.....	Savannah and Ogeechee Rivers and tributaries.
Austin, Tex.....	Colorado River (of Texas) and tributaries.
Bakersfield, Calif.....	Kern River and tributaries; Buena Vista Lake drainage and Poso Creek.
Billings, Mont.....	Yellowstone River and tributaries.
Binghamton, N. Y.....	Susquehanna River and tributaries above Towanda, Pa.
Bismarck, N. Dak.....	Missouri River and tributaries from and including Fort Peck Dam to and including Bismarck, N. Dak.; except the Milk and Yellowstone.
Boise, Idaho.....	SNAKE River and tributaries above and including Lewiston, Idaho.
Brownsville, Tex.....	Rio Grande below Laredo, Tex.
Burlington, Iowa.....	Mississippi River and tributaries except the Iowa and Skunk Rivers, and the Des Moines River at and above Keosauqua, Iowa, from below Muscatine, Iowa, to but not including Dam No. 24.
Burlington, Vt.....	Lake Champlain drainage.
Cairo, Ill.....	Ohio River and tributaries below Dam No. 50 at Fords Ferry, Ky., except the Cumberland River above Lock F at Eddyville, Ky., and the Tennessee River; Mississippi River from and including Cape Girardeau, Mo. to and including New Madrid, Mo.
Charleston, S. C.....	Waccamaw, Black, and Yadkin-PeeDee and Edisto Rivers and tributaries.
Cincinnati, Ohio.....	Ohio River and tributaries, except the Scioto River, from below Dam No. 30 to and including the mouth of the Kentucky River.
Columbia, S. C.....	Santee River and tributaries.
Columbus, Ohio.....	Sandusky and Scioto Rivers.
Concord, N. H.....	Merrimack River and tributaries.
Dallas, Tex.....	Trinity River and tributaries above Long Lake, Tex.
Davenport, Iowa.....	Mississippi River and tributaries from but not including Dam No. 10, to and including Muscatine, Iowa.
Del Rio, Tex.....	The Rio Grande and tributaries from but not including the Pecos River to and including Laredo, Tex.
Denver, Colo.....	North Platte and South Platte Rivers and tributaries at and above North Platte, Nebr.
Des Moines, Iowa.....	Iowa and Skunk Rivers and tributaries. Des Moines River and tributaries at and above Keosauqua, Iowa.
Elkins, W. Va.....	Tygart River and tributaries at and above the Tygart River Dam, W. Va.
El Paso, Tex.....	The Rio Grande and tributaries from below Elephant Butte Reservoir Dam, N. Mex., to and including the mouth of the Pecos River; the Pecos River in Texas.
Eureka, Calif.....	California Coast drainage from Point Delgada northward to but not including the Klamath River.
Evansville, Ind.....	Ohio River and tributaries, except the Wabash River, from below Hawesville, Ky., to and including Dam No. 50 at Fords Ferry, Ky.
Fargo, N. Dak.....	Red River of the North and tributaries below the Canadian line.
Fort Wayne, Ind.....	Maumee River and tributaries.
Fresno, Calif.....	San Joaquin River and tributaries above the mouth of the Tuolumne River.
Grand Junction, Colo.....	Colorado River and tributaries above but not including the mouth of the San Juan.
Grand Rapids, Mich.....	Grand River and tributaries below Grand Ledge, Mich.
Harrisburg, Pa.....	Susquehanna River and tributaries at and below Towanda, Pa.
Hartford, Conn.....	Connecticut, Housatonic, and Thames Rivers and tributaries; also other coastal rivers in states of Connecticut and Rhode Island, including the Taunton River.
Helena, Mont.....	Missouri River and tributaries above Fort Peck Dam; Milk River.
Houston, Tex.....	Neches and Brazos Rivers; Trinity River at and below Long Lake, Tex.
Huntington, W. Va.....	Ohio River and tributaries from below Dam No. 23 to and including Dam No. 30, Greenup, Ky.
Indianapolis, Ind.....	Wabash River and tributaries.
Jackson, Miss.....	Pascagoula and Pearl Rivers and tributaries.
Kansas City, Mo.....	Missouri River and tributaries, except the Kansas River at and above Lawrence, Kans., from below the mouth of the Platte River to and including Jefferson City, Mo.
Knoxville, Tenn.....	Tennessee River and tributaries, except French Broad River and tributaries above North Carolina-Tennessee State line.
La Crosse, Wis.....	Mississippi River and tributaries from and including Dam No. 2 to and including Dam No. 10; Lake Superior drainage from but not including St. Louis River eastward to Wisconsin-Michigan State line (including

La Crosse, Wis.....	Montreal River), and Lake Michigan drainage from and including Menominee River southward to Wisconsin-Illinois State line.
(Cont'd.)	
Lake Charles, La.....	Sabine, Calcasieu, Mermentau, and Vermillion Rivers.
Lansing, Mich.....	Grand River and tributaries at and above Grand Ledge, Mich.; Saginaw River and tributaries.
Little Rock, Ark.....	Arkansas River and tributaries below Van Buren, Ark.; White River and tributaries; Ouachita River and tributaries in Arkansas.
Los Angeles, Calif.....	California Coast drainage south of Point Buchon; the Salton Sea basin; Great Basin in California, south of and including Mono Lake drainage.
Louisville, Ky.....	Ohio River and tributaries from below the mouth of the Kentucky to and including Hawesville, Ky.
Medford, Oreg.....	Oregon and California Coast drainage, from and including Umpqua River basin, southward to and including Klamath River and tributaries; the Great Basin in Oregon, except the Quinn River.
Memphis, Tenn.....	Mississippi River from below New Madrid, Mo., to the mouth of the White River; St. Francis River and tributaries.
Minneapolis, Minn.....	Mississippi River and tributaries above but not including Dam No. 2.
Mobile, Ala.....	Tombigbee River and tributaries.
Montgomery, Ala.....	Alabama River and tributaries.
Nashville, Tenn.....	Cumberland River and tributaries above Lock F at Eddyville, Ky.
New Orleans, La.....	Mississippi River below Natchez, Miss.; Red River below Alexandria, La.; Ouachita and Black Rivers and tributaries in Louisiana; Atchafalaya River.
Norfolk, Nebr.....	Elkhorn River and tributaries; Omaha Creek.
Oklahoma City, Okla.....	Canadian River and tributaries east of the eastern boundary of New Mexico.
Omaha, Nebr.....	Missouri River and tributaries from below Sioux City, Iowa, to and including the mouth of the Platte, except the North Platte and the South Platte at and above North Platte, Nebr., and excluding the Elkhorn River.
Parkersburg, W. Va.....	Ohio River and tributaries from below Dam No. 13 to and including Dam No. 23, near Apple Grove, Ohio.
Pensacola, Fla.....	Escambia and Choctawhatchee Rivers and tributaries.
Philadelphia, Pa.....	Delaware River and tributaries, except the Lackawaxen, the Lehigh above Easton, Pa., and the Schuylkill above Perkiomen Creek.
Phoenix, Ariz.....	Gila River and tributaries at and above Gila Bend, Ariz., and the Colorado River and tributaries from but not including the San Juan to but not including the mouth of the Virgin River.
Pittsburgh, Pa.....	Ohio River and tributaries at and above Dam No. 13, except the Tygart River at and above Tygart River Dam, W. Va.
Portland, Maine.....	Rivers in Maine.
Portland, Oregon.....	Columbia River and tributaries below Grand Coulee Dam, except the Snake River at and above Lewiston, Idaho; Oregon Coast drainage north of the Umpqua River basin.
Pueblo, Colo.....	Arkansas River and tributaries in Colorado.
Raleigh, N. C.....	The rivers and their tributaries that enter the Atlantic Ocean on the North Carolina coast.
Reading, Pa.....	Schuylkill River and tributaries above Perkiomen Creek.
Richmond, Va.....	James River and tributaries.
Sacramento, Calif.....	Rivers in the central valleys of California, except the San Joaquin River above the mouth of the Tuolumne River.
St. Louis, Mo.....	Mississippi River and tributaries from and including Dam No. 24 and its upstream gage to but not including Cape Girardeau, Mo., except the Osage River in Kansas and the Missouri River at and above Jefferson City, Mo.
Salt Lake City, Utah.....	Great Salt Lake basin.
San Antonio, Tex.....	Guadalupe, Nueces, and the San Antonio Rivers and tributaries.
San Francisco, Calif.....	California Coast drainage, except rivers in the Central Valley of California, from Point Delgada to Point Buchon.
Seattle, Wash.....	Puget Sound and Washington Coast drainage, except the Columbia River.
Shreveport, La.....	Red River and tributaries at and above Alexandria, La.
Sioux City, Iowa.....	Missouri River and tributaries from below Bismarck, N. Dak., to and including Sioux City, Iowa.
Spokane, Wash.....	Columbia River and tributaries above and including Grand Coulee Dam.
Topeka, Kans.....	Kansas River and tributaries at and above Lawrence, Kans., Osage River and tributaries in Kansas.
Tulsa, Okla.....	Arkansas River and tributaries, except the Canadian River, from the Kansas-Colorado line to and including Van Buren, Ark.
Vicksburg, Miss.....	Mississippi River from the mouth of the White River to and including Natchez, Miss.; Yazoo and Big Black Rivers and tributaries.
Washington, D. C.....	Potomac and Rappahannock Rivers and tributaries.
Yuma, Ariz.....	Colorado River and tributaries from and including the mouth of the Virgin River to the Arizona-Mexico border, and the Gila River below Gila Bend, Ariz.

RIVER STATIONS AND MISCELLANEOUS INFORMATION

(River stations, arranged by drainage areas, and miscellaneous information pertaining thereto)

Station	River	Length of record ¹	Elevation of gage zero above mean sea level ²	Distance of gage above mouth of river ³	Drainage area above gage ⁴	Flood stage	Extreme stages from gage readings ⁵			
							Highest	Date	Lowest	Date
MISSISSIPPI SYSTEM—Continued										
Ohio Basin—Continued										
Pleasant Hill, Ohio	Stillwater	34	846.73	29.2	502	13	17.5	Jan. 15, 1937	0.6	July 26, 1941
Springfield, Ohio	Mad	36	881.42	23.6	477	11	15.1	do	1.2	Dec. 4, 1944
Brookville, Ind	Whitewater	32	595.73	27.0	1,230	20	25.56	Feb. 26, 1929	0.1	Sept. 25, 1941
Sidney, Ohio	Miami	31	924.65	134.8	545	12	14.2	Mar. 21, 1927	-0.2	Sept. 23, 1940
Piqua, Ohio	do	39	844.00	122.1	850	17	29.1	Mar. 25, 1913	0.7	Sept. 17, 1941
Tipp City, Ohio	do	27	786.77	104.5	955	27	13.8	Mar. 21, 1927	0.4	Oct. 3, 1941
Dayton, Ohio	do	57	721.01	84.5	2,515	21	31.7	Mar. 25, 1913	-0.1	Sept. 28, 1941
Miamisburg, Ohio	do	27	678.44	68.6	2,719	22	20.6	Jan. 22, 1937	-0.3	Oct. 17, 1929
Franklin, Ohio	do	27	656.41	61.3	2,731	16	16.7	do	0.0	Nov. 5, 1944
Middletown, Ohio	do	27	621.00	52.3	3,158	15	19.0	Feb. 27, 1929	0.0	Oct. 8, 1924
Hamilton, Ohio	do	40	560.00	35.3	3,637	17	43.1	Mar. 26, 1913	-1.7	Oct. 21, 1932
Hazard, Ky	North Fork	25	837.57	96.0	442	20	33.8	May 30, 1927	-0.4	Aug. 1-8, 1925
Jackson, Ky	do	44	697.67	.....	1,105	29	43.1	Feb. 4, 1939	0.3	Aug. 14-17, 1944
Lock No. 14, Heidelberg, Ky	Kentucky	33	627.20	249.3	2,639	30	35.6	do	4.8	Nov. 10, 1930
Lock No. 10, Ford, Ky	do	44	556.80	176.3	3,948	30	35.1	Mar. 29, 1913	9.0	Aug. 9-14, 1944
Lock No. 7, Highbridge, Ky	do	49	503.66	117.0	5,024	30	42.2	Jan. 23, 1937	4.7	Nov. 24, 1912
Lock No. 4, Frankfort, Ky	do	64	462.17	65.0	5,396	31	47.56	Jan. 25, 1937	3.2	Nov. 1, 1908
Rowling Green, Ky	Barren	26	409.83	37.6	1,870	28	R 40.7	Jan. 23, 1937	R 0.0	Oct. 18, 1923
Dundas, Ky	Rough	10	393.18	82.5	752	25	.....	.....	.....	.....
Munfordville, Ky	Green	25	451.70	223.0	1,707	28	50.4	Jan. 23, 1937	1.7	Oct. 4, 1928
Lock No. 6, Brownsville, Ky	do	33	403.28	180.6	2,751	28	54.7	Jan. 24, 1937	6.1	Sept. 10, 1919
Lock No. 4, Woodbury, Ky	do	51	373.80	149.5	5,448	33	59.0	do	5.0	Sept. 17, 1902
Lock No. 2, Rumsey, Ky	do	51	343.64	62.8	7,681	34	54.42	Jan. 31, 1937	3.7	July 28, 1902
Anderson, Ind	West Fork	39	825.02	242.6	428	10	22.9	Mar. 25, 1913	3.8	June 19, 1916
Noblesville, Ind	do	36	738.18	215.1	844	14	18.8	Jan. 16, 1937	3.0	Aug. 29, 1914
Indianapolis, Ind	do	39	672.92	185.3	1,590	12	29.5	Mar. 26, 1913	2.0	Sept. 17, 1941
Spencer, Ind	do	24	526.04	.....	2,980	14	23.2	Jan. 16, 1937	0.9	Oct. 1, 1941
Elliston, Ind	do	42	472.94	78.2	4,470	18	31.3	Mar. 27, 1913	5.3	Oct. 22-Nov. 5, 1944
Edwardsport, Ind	do	27	433.20	32.6	4,995	12	25.0	May 22, 1943	1.7	Jan. 2, 1945
Seymour, Ind	East Fork	27	550.67	167.6	2,292	14	19.7	Jan. 5, 1949	0.3	Aug. 22, 1936
Williams, Ind	do	29	472.58	79.2	4,584	10	25.0	Jan. 25, 1937	-2.0	Jan. 1, 1931
Shosals, Ind	do	42	442.21	56.0	4,828	25	42.2	Mar. 28, 1913	1.2	Aug. 24, 1936
Petersburg, Ind	White	15	400.00	47.8	11,100	16	28.1	Jan. 21, 1937	0.0	Aug. 26, 1936
Bluffton, Ind	Wabash	39	793.01	421.8	555	10	20.0	Mar. 26, 1913	0.2	July 26, 1934
Wabash, Ind	do	27	642.66	.....	1,740	12	24.8	May 18, 1943	1.7	Aug. 9, 1934
Peru, Ind	do	5	622.73	378.0	2,660	20	.....	.....	.....	.....
Logansport, Ind	do	32	573.28	343.2	3,860	17	25.3	Mar. 26, 1913	2.2	Dec. 4, 1914
La Fayette, Ind	do	36	504.14	301.4	7,324	11	28.4	May 19, 1943	0.3	Sept. 25, 1941
Covington, Ind	do	23	473.97	260.5	8,399	16	32.4	May 20, 1943	1.2	Oct. 5, 1926
Terra Haute, Ind	do	51	445.78	204.4	12,333	14	31.3	Mar. 27, 1913	-2.0	Feb. 6, 1892
Riverton, Ind	do	11	414.65	.....	13,100	.....	26.4	Mar. 28, 1913	0.0	Oct. 1, 1941
Vincennes, Ind	do	33	394.43	117.2	13,840	16	28.0	May 22, 1943	1.2	June 22, 1934
Mount Carmel, Ill	do	66	371.46	83.9	26,506	17	31.0	Mar. 30, 1913	-0.2	Oct. 9, 1940
New Harmony, Ind	do	16	353.20	44.0	26,160	15	24.4	Jan. 30, 1937	-0.2	Sept. 30, 1941
New River, Tenn	New	42	1,092.67	8.0	383	18	K 41.2	Mar. 23, 1929	.....	.....
Rock Island, Tenn	Caney Fork	39	647.41	90.3	1,656	30	40.6	do	0.0	Dec. 6, 1944
Williamshurg, Ky	Cumberland	42	892.40	592.7	1,617	19	30.4	Mar. 25, 1929	-2.5	Sept. 16, 1919
Burnside, Ky	do	42	892.40	518.4	4,949	50	69.4	Mar. 24, 1929	-1.6	Nov. 8, 1895
Burnside, Ky	do	65	585.25	518.4	4,949	50	69.4	Mar. 24, 1929	-1.6	Nov. 8, 1895
Cellins, Tenn	do	46	489.47	383.1	7,323	40	57.11	Dec. 29, 1926	-0.2	Oct. 6, 1911
Carthage, Tenn	do	48	487.67	308.4	10,754	40	58.7	Dec. 30, 1926	-0.4	Nov. 16, 1902
Nashville, Tenn	do	76	368.17	192.6	12,678	40	56.2	Jan. 1, 1927	-0.1	Sept. 14, 1887
Clarksville, Tenn	do	49	330.95	127.0	14,504	46	65.55	Jan. 25, 1937	-1.0	Sept. 18, 1913
Lock F, Eddyville, Ky	do	32	289.61	43.6	17,500	50	76.9	Jan. 26, 1937	-0.7	Oct. 14, 1894
Mendota, Va	North Fork	44	1,330.56	38.3	530	8	17.5	June 14, 1907	0.3	Oct. 13, 1933
Elizabethton, Tenn	Watauga	50	1,486.23	24.4	665	14	20.9	Aug. 14, 1940	1.0	Sept. 27, 1927
Bluff City, Tenn	South Fork	50	1,366.35	34.4	813	12	15.0	May 22, 1901	-0.2	Sept. 9, 1925
Kingsport, Tenn	do	24	1,184.31	5.7	1,931	14	18.8	Aug. 14, 1940	-0.2	Jan. 28, 1940
Cherokee Dam (Head Water), Tenn	Holston	8	980.00	52.3	3,428	95	94.4	May 11, 1944	10.8	Dec. 20, 1946
Embsville, Tenn	Nolichucky	29	1,519.30	89.0	805	8	18.6	Aug. 13, 1940	0.5	Jan. 3, 1940
Asheville, N.C.	French Broad	47	1,959.90	147.3	949	9	25.6	July 16, 1916	0.0	Nov. 1, 1904
Hot Springs, N.C.	do	16	1,311.55	108.6	1,570	8	16.1	Aug. 30, 1940	2.1	Sept. 28, 1936
Douglas Dam (Head Water), Tenn	do	7	920.00	32.3	4,541	82	80.8	Apr. 26, 1944	9.2	Dec. 19, 1946
Bryson City, N.C.	Tuckasegee	52	1,716.54	12.6	655	9	15.86	Aug. 30, 1940	0.5	Sept. 10, 1925
Fontana Dam (Head Water), N.C	Little Tennessee	5	1,530.00	61.0	1,571	180	178.05	June 5, 1946	38.1	Nov. 1, 1947
Norris Dam (Head Water), Tenn	Clinch	14	830.00	79.8	2,912	90	101.1	Feb. 11, 1937	4.8	Jan. 14, 1940
Prospect, Tenn	Elk	16	563.29	41.5	1,784	21	33.2	Jan. 9, 1946	1.2	Oct. 7, 1936
Columbia, Tenn	Duck	43	535.52	132.8	1,208	32	43.1	Mar. 25, 1929	1.3	July 9, 1927
Knoxville, Tenn	Tennessee	67	797.38	645.1	8,963	20	38.9	Feb. 26, 1915	-3.6	Sept. 11, 1925
Kingston, Tenn	do	15	700.00	569.1	12,470	51	45.4	Mar. 9, 1942	3.5	Oct. 8, 1945
Chickamauga Dam (Upper Lock), Tenn	do	10	630.00	471.0	20,790	55	54.97	Apr. 6, 1940	43.2	Jan. 21, 1942
Chattanooga, Tenn	do	76	621.12	464.2	21,400	30	53.8	Mar. 1, 1875	0.0	Sept. 11-14, 1881
Gunterville, Ala	do	46	550.00	358.0	24,340	45	35.8	Mar. 10, 1917	-2.5	Sept. 8, 1930
Decatur, Ala	do	73	534.30	305.0	26,900	25	27.5	Apr. 7, 1886	-0.4	Sept. 7-13, 19, 1925
Florence, Ala	do	78	401.12	256.7	30,810	18	32.5	Mar. 19, 1897	-3.0	Oct. 8, 1925
Savannah, Tenn	do	44	300.00	189.9	33,140	80	92.7	Jan. 2, 1927	38.8	Sept. 8, 1925
Perryville, Tenn	do	13	300.00	134.9	34,550	78	73.5	Jan. 14, 1946	26.7	Nov. 17, 1931
Johnsonville, Tenn	do	74	300.00	100.5	36,520	77	70.4	Mar. 24, 1897	18.9	Sept. 11, 1925
Kentucky Dam (Upper Lock), Ky	do	4	335.00	22.4	40,200	40	25.3	Apr. 28, 1946	2.8	Nov. 10, 1944
Paducah, Ky	do	14	286.35	21.8	40,200	34	62.4	Feb. 2, 1937	10.6	Jan. 13, 1942
Pittsburgh, Pa	Ohio	78	694.27	981.0	19,101	25	46.0	Mar. 18, 1936	1.9	Sept. 28, 1881
Corapolis, Pa	do	43	683.43	971.8	19,474	26	43.6	do	0.5	Dec. 18, 1914
Dam No. 7, Midland, Pa	do	38	647.20	944.5	22,952	30	53.7	do	.....	.....
Dam No. 12, near Wheeling, W. Va	do	39	610.80	893.8	24,614	36	55.2	do	2.7	Aug. 19, 1922
Dam No. 13, near Wheeling, W. Va	do	49	602.80	884.9	25,139	37	57.9	do	2.2	Oct. 15, 1916
Marietta, Ohio:	do	36	567.12	809.0	35,575	35	55.0	Jan. 26, 1937	7.0	Feb. 3, 1936
Lower gage (Muskingum)	do	62	561.87	796.4	37,914	36	58.9	Mar. 28, 1913	0.3	Sept. 10, 1894
Parkersburg, W. Va	do	33	555.30	788.8	38,053	40	58.0	Jan. 26, 1937	2.7	Nov. 13, 1916
Dam No. 19, Little Hocking, Ohio	do	33	549.10	778.5	39,342	45	58.6	Jan. 27, 1937	1.3	Aug. 23, 1918
Dam No. 20, near Bellefonte, W. Va	do	35	536.00	760.1	39,843	44	62.6	do	0.2	Sept. 15, 1918

See footnotes at end of table.

MISSISSIPPI SYSTEM-OHIO BASIN

WARREN RIVER AT LAFAYETTE, IND.

GAGE ZERO: 904.14 FEET; M.S.L. FLOOD STAGE: 11 FEET

1949	Day of month																															High temp °F	Low temp °F	Date	Lowest	Days		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31							
JAN	13.2	9.0	7.1	5.6	10.7	17.0	18.6	17.6	15.6	12.3	13.0	13.3	11.7	9.9	8.6	8.1	10.0	11.6	10.6	21.0	21.6	20.1	17.1	13.6	12.2	12.2	14.8	17.0	19.2	19.0	17.8	K 21.7	20+	5.6	4			
FEB	13.0	9.2	7.8	6.8	6.6	6.6	5.8	6.0	6.1	6.4	6.1	5.5	5.3	5.6	13.8	19.5	20.4	19.5	17.7	19.3	12.5	11.0	12.2	12.5	12.1	12.2	11.0	9.7				K 20.4	17	5.3	13			
MAR	9.5	7.5	6.8	6.6	6.2	6.1	5.7	5.5	5.2	5.3	5.3	5.1	5.1	4.9	4.8	4.5	4.8	4.6	4.5	4.3	4.1	4.3	4.3	4.5	5.5	5.2	6.8	7.3	10.5	10.0	8.4	L 10.5	20	4.1	21			
APR	7.9	7.5	6.8	5.9	5.2	5.0	4.8	4.4	4.3	4.1	3.8	3.6	3.5	3.5	3.8	3.7	3.7	3.9	4.3	5.0	5.3	4.7	4.3	4.0	4.0	4.0	4.5	5.2	6.5	6.3			L 7.9	1	3.5	13		
MAY	5.2	4.8	4.2	4.2	4.0	3.8	3.4	3.2	3.2	3.1	3.0	2.9	2.8	2.7	2.7	2.4	2.8	2.7	2.7	3.4	3.3	3.3	13.6	14.8	13.0	10.5	8.6	7.2	5.9	5.2	4.7	L 11.2	23	2.4	16			
JUN	4.3	3.8	3.7	4.2	5.0	4.3	3.7	3.3	3.1	2.8	2.5	2.7	2.7	2.8	4.0	4.0	5.3	8.5	9.1	8.5	6.1	5.2	4.9	4.1	3.9	3.6	10.8	7.9	6.8	7.2			M 11.2	27	2.5	11		
JUL	6.1	5.1	5.0	4.3	3.8	3.5	3.9	3.9	3.7	4.8	6.9	5.8	4.8	3.8	3.4	3.1	2.9	2.8	2.5	2.4	2.4	3.4	3.7	3.2	3.2	2.8	3.1	3.1	3.2	3.2	4.2			6.9	11	2.4	204	
AUG	3.8	3.7	3.7	3.2	3.0	2.6	2.4	2.3	2.2	2.2	1.9	2.1	2.0	1.9	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.8	1.8	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.6			3.8	1	1.6	274
SEP	1.7	1.7	1.8	1.8	1.7	2.5	3.6	3.1	2.5	2.2	1.9	1.8	1.7	1.6	1.6	1.5	1.8	1.5	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5			1.5	1.6	1.4	284
OCT	1.4	1.4	1.5	2.1	2.0	1.9	2.6	2.8	3.0	3.0	2.7	3.9	3.9	11.7	11.7	8.9	9.9	4.8	4.4	4.0	3.7	3.4	3.8	4.3	4.7	4.3	3.0	3.5	3.2	3.0	2.9	2.7	N 12.5	13	1.4	1.4		
NOV	2.7	2.5	2.4	2.4	2.5	2.3	2.1	2.3	2.3	2.2	2.1	2.1	2.2	2.8	2.7	3.0	2.6	2.7	2.6	2.5	2.5	2.5	2.3	2.2	2.3	2.3	2.3	2.0	2.3	2.2	2.2			3.0	16	2.0	27	
DEC	2.2	2.1	2.1	2.1	2.0	2.0	2.1	2.0	2.0	2.0	1.9	2.0	2.4	2.8	3.8	3.2	2.9	2.8	2.9	3.5	3.7	11.7	16.8	17.3	14.3	10.3	10.6	13.3	12.9	10.3	9.4	Q 17.5	23	1.9	10			

WABASH RIVER AT COVINGTON, IND.

GAGE ZERO: 473.97 FEET; M.S.L.; FLOOD STAGE: 20 FEET

1949	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	High	Low
JAN	17.6	16.7	12.6	10.5	12.6	16.6	19.8	20.8	21.2	20.4	18.8	18.3	18.1	16.9	14.7	12.9	13.1	14.6	18.8	21.1	24.1	25.0	24.0	22.2	20.0	18.3	17.9	19.7	21.2	22.5	R22.8	25.0	22
FEB	17.0	19.6	15.6	12.2	10.7	9.7	9.4	9.0	9.4	9.7	9.8	9.2	8.6	8.6	15.9	10.1	22.3	23.8	23.3	21.9	20.2	18.3	17.0	17.1	17.2	17.0	16.6	15.4	12.8	14.0	13.4	25.0	28
MAR	13.7	12.2	10.9	10.2	9.8	9.6	9.4	8.8	8.7	8.4	8.6	8.6	8.4	8.2	8.0	7.7	7.7	7.5	7.5	7.5	7.3	7.1	7.0	7.1	7.2	7.8	8.4	10.9	11.1	12.8	14.0	30	
APR	12.2	11.6	10.8	10.0	9.0	8.3	7.9	7.6	7.2	6.9	6.7	6.5	6.4	6.3	6.2	6.3	6.3	6.4	6.8	7.3	8.1	7.9	7.5	7.1	6.7	6.6	7.2	7.9	8.5	9.8	12.2	1	
MAY	9.0	8.0	7.5	7.1	6.9	6.8	6.2	5.9	5.7	5.5	5.4	5.3	5.1	5.0	5.0	4.9	4.9	4.9	4.9	5.2	5.9	7.7	15.3	17.6	18.4	17.9	13.7	13.0	10.5	9.3	8.1	18.4	29
JUN	7.5	7.0	6.6	6.2	7.8	7.4	6.7	6.1	5.8	5.3	5.3	5.0	5.0	4.8	5.7	7.1	7.0	9.2	12.2	11.8	10.2	8.8	8.5	7.5	6.7	6.4	8.3	13.1	10.8	10.5	13.1	28	4
JUL	10.3	8.9	8.0	7.6	6.7	6.0	6.4	6.5	6.1	6.7	8.5	9.7	8.3	6.9	6.2	5.7	5.3	5.0	4.7	4.6	4.8	5.0	6.5	6.2	5.6	5.4	6.2	5.8	5.7	6.0	6.2	10.3	1
AUG	6.6	6.3	6.3	6.1	5.4	5.0	4.7	4.4	4.2	4.2	4.1	4.0	4.2	3.9	4.0	4.1	4.0	3.9	4.0	3.9	3.8	3.8	3.7	3.6	3.8	3.5	3.5	3.5	3.5	3.8	6.6	1	
SEP	3.4	3.3	3.6	3.6	3.6	3.9	5.4	5.5	4.7	4.2	3.9	3.7	3.6	3.8	3.8	3.4	3.4	3.4	3.5	3.5	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.3	3.3	3.3	3.5	5.5	8
OCT	3.3	3.3	3.3	3.0	4.2	4.0	4.3	4.9	5.2	5.3	5.2	8.0	11.4	15.1	14.8	11.1	8.7	7.6	6.5	6.4	6.2	6.8	7.3	7.6	6.8	6.8	6.2	5.9	5.8	5.3	5.1	15.3	14
NOV	5.0	4.9	4.7	4.7	4.6	4.6	4.6	4.3	4.4	4.4	4.2	4.1	4.3	5.5	5.4	5.0	5.3	5.3	5.1	5.0	4.9	4.7	4.6	4.5	4.6	4.6	4.5	4.3	4.5	4.4	4.2	12	
DEC	4.4	4.2	4.3	4.3	4.2	4.2	4.2	4.1	4.2	4.0	4.1	5.3	5.3	8.5	5.6	5.9	5.6	5.4	5.7	6.0	7.4	14.5	17.6	19.5	20.6	19.8	17.5	16.8	17.4	17.1	15.0	20.6	25

WABASH RIVER AT TERRE HAUTE, IND.

GAGE ZERO: 445.78 FEET; M.S.L. FLOOD STAGE: 16 FEET

1949	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	High	Low	Days		
JAN	13.4	13.4	13.2	11.1	14.6	15.8	16.5	16.3	16.1	16.1	16.8	17.1	17.1	16.9	16.7	16.0	15.0	14.0	16.3	18.6	19.9	20.1	20.3	20.3	20.1	19.3	18.4	18.9	18.6	19.1	19.1	S	20.8	23	11.1	
FEB	19.1	18.9	18.3	17.0	14.6	11.8	9.8	9.2	8.6	8.5	8.7	8.3	7.6	7.4	12.8	16.6	18.5	18.0	19.6	19.8	19.8	19.1	18.3	17.4	16.5	16.0	15.7	13.5	13.2				19.2	7.4	14	
MAR	14.7	13.6	11.7	10.2	9.3	8.7	8.3	7.8	7.3	7.0	7.0	6.8	6.6	6.2	6.0	5.8	5.8	5.6	5.3	5.3	5.2	5.2	5.2	5.2	5.2	5.3	8.7	11.8	11.5	11.5	11.9		14.7	1	4.5	
APR	12.4	11.4	10.5	9.3	8.3	8.0	6.8	6.5	6.0	5.5	5.2	5.0	4.9	4.7	4.7	4.7	4.7	4.7	4.6	4.7	5.0	5.2	5.2	5.4	5.4	4.9	4.5	9.7	6.0	6.3		12.4	1	5.2		
MAY	6.8	6.5	6.0	5.4	5.0	4.6	4.4	4.0	3.8	3.6	3.6	3.3	3.2	3.1	3.0	2.8	2.8	2.8	3.0	3.4	3.3	3.3	3.3	3.6	12.0	13.7	14.2	14.7	14.4	12.2	9.1	8.4		14.7	2	26
JUN	5.3	5.3	5.2	5.0	4.3	4.9	4.8	4.2	3.7	3.3	3.4	3.4	3.4	3.3	3.1	2.1	4.7	5.2	6.5	8.1	8.3	7.0	5.8	5.4	4.7	4.6	3.7	4.8	8.6	7.8		9.0	29	2.3	10	
JUL	7.4	7.0	5.9	5.0	4.5	3.9	3.4	3.7	3.7	3.7	3.7	5.2	5.9	5.4	4.1	3.4	3.0	2.7	2.7	2.4	2.2	4.4	3.5	4.4	4.1	4.1	3.4	3.0	4.5	4.2	4.3	7.4	1	2.2	21	
AUG	4.1	3.8	3.6	3.3	2.8	2.8	2.3	2.2	1.9	1.8	1.6	1.9	1.7	1.7	4.3	3.1	2.7	2.1	1.7	1.7	1.8	1.6	1.0	0.8	1.0	1.0	1.1	1.0	1.1	1.0	1.1	1.0	4.3	19	0.8	24
SEP	1.0	1.0	1.0	0.8	1.1	1.0	1.0	1.0	2.3	2.3	2.3	1.8	1.2	1.7	1.0	1.0	1.0	1.0	1.4	1.2	1.1	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.8	0.9		2.3	9	0.8	4	
OCT	0.9	0.9	0.9	1.0	1.2	2.0	3.2	2.8	2.8	2.6	2.4	9.5	14.1	14.2	13.4	12.1	9.5	7.1	5.9	5.1	4.4	6.0	7.0	6.8	6.2	5.8	5.3	4.6	4.2	3.3	3.2	T	14.2	13	0.9	1
NOV	3.1	2.8	2.6	2.4	2.3	2.2	2.1	2.1	1.9	1.9	1.9	1.9	1.9	1.9	3.4	3.8	3.3	3.1	3.1	2.8	2.6	2.8	2.4	2.3	2.2	2.6	1.8	2.0	1.9	1.9		1.9		1.9		
DEC	1.9	1.9	1.9	1.8	1.8	1.7	1.7	1.6	1.6	1.6	1.6	2.3	4.0	3.8	3.7	3.8	3.1	3.8	3.8	4.2	2.9	11.4	14.9	15.0	15.7	16.1	17.6	17.1	16.3	15.8	T	17.8	27	1.6	8	

WABASH RIVER AT RIVERTON, IND.

GAGE ZERO: 414.05 FEET, M.S.L.

[illegible]

CREST 19.4, K 11 P.M., 20TH TO 4 A.M., 21ST, L CREST, 6-11 P.M.

M CREST AT 11 A.M. N CREST AT 7 P.M. P CREST: 13.4 AT 1 P.M.

Q CREST AT 6 P.M. R APPROXIMATE CREST: 23.0 DURING EARLY MORNING.

S AT 9 P.M. T AT NOON AND 5 P.M. ALSO SEE REFERENCE NOTES FOLLOWING

CORRIGENDA

INDEX BY STATIONS

[Omission of page number under "gage readings" indicates the record is short and broken, and is not published. A copy of the available readings may be obtained by application to the Chief of the Weather Bureau.]

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Paducah, Ky.	Ohio	9	128	Spalding, Idaho	Clearwater	11	170
.....do.	Tennessee	8	116	Spencer, Ind.	West Fork	8	104
Paintsville, Ky.	Levisa Fork	7	96	Spokane, Wash.	Spokane	11	169
Paonia, Colo.	Gunnison—North Fork	11	Springbank, Ark.	Red	10
Parkersburg, W. Va.	Ohio	8	118	Springfield, Mass.	Connecticut	4	39
Parkers Landing, Pa.	Allegheny	7	87	Springfield, Ohio	Potomac—South Branch	4
Parkins, Ark.	St. Francis	9	119	Springfield, W.	Little Red	9	130
Pearl River, La.	Pearl	6	62	Sugar Loaf Mountain, Ark.	Meramec	6	68
Pee Dee, S. C.	Pee Dee	5	44	Sullivan, Mo.	Susquehanna	4	76
Pelzer, S. C.	Saluda	5	44	Sunbury, Pa.	Youghiogheny	90
Pennacook, N. H.	Contoocook	4	27	Sutersville, Pa.	Tallahatchie	0	147
Peoria, Ill.	Illinois	6	67	Swan Lake, Miss.do.	4	41
Perkins, Okla.	Cimarron	9	134	Taboro, N. C.	Ohio	9	135
Perryville, Tenn.	Tennessee	8	116	Tall City, Ind.	Wabash	8	107
Perru, Ill.	Illinois	6	67	Terre Haute, Ind.	Columbia	11	177
Peru, Ind.	Wabash	8	106	The Dalles, Oreg.	Neuse	10	159
Petersburg, Ind.	White	8	105	Three Rivers, Tex.	Sandusky	4	36
Philadelphia, Pa.	Schuylkill	4	31	Tiffin, Ohio	Miami	8
Phillippi, W. Va.	Tygart	7	89	Tipp City, Ohio	Kansas	7	78
Pierre, S. Dak.	Missouri	7	82	Topeka, Kans.	Potomac	4
Pikeston, Ohio	Scioto	7	97	Towanda, Pa.	Des Moines	6	86
Pikeville, Ky.	Levisa Fork	9	140	Tracy, Iowa	Thompson Fork	7	80
Pine Bluff, Ark.	Arkansas	9	140	Trenton, Mo.	Delaware	4	31
Piney Bluff, Ga.	Altamaha	5	Trenton, N. J.	Mohawk	4	29
Piqua, Ohio	Miami	8	99	Tribes Hill, N. Y.	Trinity	10	154
Pittsburgh, Pa.	Ohio	8	117	Trinidad, Tex.	Columbia	11	176
Pleasant Hill, Ohio	Scioto	7	97	Trinidad, Wash.	Kansas	9	138
Plymouth, N. H.	Pemigewasset	4	Tuolumne Lock and Dam, Ala.	Black Warrior	5	57
Point Pleasant, W. Va.	Ohio	9	119	Unatilla, Oreg.	Columbia	11	176
Poplar Bluff, Mo.	Black	9	129	Unadilla, N. Y.	Susquehanna	4
Portage, Wis.	Wisconsin	6	64	Union, Mo.	Bourbeuse	6	68
Port Jervis, N. Y.	Delaware	4	31	Uniontown, Ky.	Ohio	9	127
Portland, Mich.	Grand	4	Upper Sandusky, Ohio	Sandusky	4	26
Portland, Oreg.	Williamette	11	175	Valley Junction, Tex.	Brazos	10	156
Portsmouth, Ohio	Ohio	9	121	Valler Park, Mo.	Meramec	7	80
Poston, S. C.	Pee Dee	5	Van Buren, Ark.	Arkansas	9	139
Prairie du Chien, Wis.	Mississippi	10	150	Vanceburg, Ky.	Ohio	9
Priest River, Idaho	Clark Fork	11	169	Vancouver, Wash.	Columbia	11	177
Prospect, Ohio	Scioto	7	97	Vandergrift, Pa.	Kiskiminitas	7	86
Prospect, Tenn.	Elk	8	113	Van Meter, Iowa	Raccoon	6	65
Pueblo, Colo.	Arkansas	9	Vestal, N. Y.	Susquehanna	4	35
Puyallup, Wash.	Puyallup	12	178	Vicksburg, Miss.	Mississippi	10	150
Quincy, Ill.	Mississippi	6	73	Victoria, Iowa	Guadalupe	10	158
Radford, Va.	Roanoke	5	39	Vincennes, Ind.	Wabash	8	108
Rainbow, Tex.	Rapidan	4	Wabash, Ind.do.	8	106
Ralston, Okla.	Arkansas	9	138	Waco, Tex.	Brazos	10	155
Randolph, Va.	Roanoke	5	39	Wahpeton, N. Dak.	Red of North	4	23
Rapidan, Va.	Ohio	8	118	Wakefield, Kans.	Connecticut	4
Ravenwood, W. Va.	Schuylkill	4	30	Walpole, N. H.	Kansas	7	79
Reading, Pa.	Mississippi	6	70	Wamego, Kans.	Allegheny	7	87
Reids, Miss.	Sacramento	11	166	Warren, Pa.	Osage	7	81
Red Bluff, Calif.	Mississippi	10	150	Warren, Mo.	Missouri	7
Red River Landing, La.do.	6	70	Washington, D. C.	Potomac	4
Red Wing, Minn.	Susquehanna—West Branch	4	34	Washington (near), D. C.do.	4	38
Renovo, Pa.	Oostanaula	5	53	Washington, Tex.	Brazos	10	156
Resaca, Ga.	Mississippi	10	151	Waterloo, Iowa	Cedar	6	64
Reserve, La.	Henry Fork	11	169				
Rexburg, Idaho	Brazos	10	156				
Richmond, Tex.	James	5	39				
Richmond, Va.	James	5	39				